Bruhat Bangalore Mahanagara Palike

Name of Work: Improvements to roads and drains at Thanisandra and Surrounding area in Ward No 06

Byataravanapura sub division

Est Cost: =400.00Lakhs

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80								
	Basic rate	130.00							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	199.80							
	6% AW	11.99							
	Total	211.79							
	Desilt								
	W0826	1	75.00	0.60	0.35	15.75			
	W0830	1	210.00	0.60	0.35	44.10			
	W01243	2	100.00	0.60	0.35	42.00			
	W0820	2	215.00	0.60	0.35	90.30			
	Ch 0-80	1	80.00	0.60	0.35	16.80			
	Ch 80-145	1	65.00	0.60	0.35	13.65			
	W0822	2	75.00	0.60	0.35	31.50			
	W01247	2	110.00	0.60	0.35	46.20			
	W0828	2	60.00	0.60	0.35	25.20			
	W1237	1	110.00	0.60	0.35	23.10			
	Narayanaswamy Rd W1591								
	Ch 0-190	2	190.00	0.60	0.35	79.80			
	Ch 190-420	2	230.00	0.60	0.35	96.60			
	Ch 420-545	2	125.00	0.60	0.35	52.50			
	W1267/W0832/W1271	2	375.00	0.60	0.35	157.50			
	W0821	2	170.00	0.60	0.35	71.40			
	W0566	1	220.00	0.60	0.35	46.20			
	W1245	1	95.00	0.60	0.35	19.95			
	W0802	1	40.00	0.60	0.35	8.40			
	Cross Road C	1	45.00	0.60	0.35	9.45			
	Cross Road D	2	105.00	0.60	0.35	44.10			
	W0574	1	120.00	0.60	0.35	25.20			
	W1237 - A	2	230.00	0.60	0.35	96.60			
	W0546	1	170.00	0.60	0.35	35.70			
	W0534	1	225.00	0.60	0.35	47.25			
	W0851/W1255	1	120.00	0.60	0.35	25.20			
	W0814	2	125.00	0.60	0.35	52.50			
	W0808	1	45.00	0.60	0.35	9.45			
	W0538	1	60.00	0.60	0.35	12.60			
	W0542	2	80.00	0.60	0.35	33.60			
	W0809	1	45.00	0.60	0.35	9.45			
	W0532	1	45.00	0.60	0.35	9.45			
	W0829/W0831	1	100.00	0.60	0.35	21.00			
	W0843	1	35.00	0.60	0.35	7.35			
	W0812	2	118.00	0.60	0.35	49.56			
	W0816	2	120.00	0.60	0.35	50.40			
	Cross Road 3	2	100.00	0.60	0.35	42.00			
	Cross Road A	2	120.00	0.60	0.35	50.40			
	Cross Road B	2	85.00	0.60	0.35	35.70			
	Cross Road C	2	120.00	0.60	0.35	50.40			
	Cross Road D	2	135.00	0.60	0.35	56.70			
	Cross Road E	2	125.00	0.60	0.35	52.50			
	Cross Road F	2	115.00	0.60	0.35	48.30			
	Cross Road G	2	92.00	0.60	0.35	38.64			
	New Drain								
	W0484	2	310.00	0.95	0.95	559.55			
	Culverts								
	Cross Culverts	2	6.00	0.80	0.80	7.68			
	RCC Culvert								
	New Culverts	2	7.00	1.40	1.15	22.54			
		1	6.00	1.40	1.15	9.66			
						2,393.88	Cum	211.79	506999.85

2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)								
	Basic rate	105.00							
	6% AW	6.30							
	Total	111.30							
	Desilt								
	W0826	1	75.00	1.35		101.25			
	W0830	1	210.00	1.35		283.50			
	W01243	2	100.00	1.35		270.00			
	W0820	2	215.00	1.35		580.50			
	Ch 0-80	1	80.00	1.35		108.00			
	Ch 80-145	1	65.00	1.35		87.75			
	W0822	2	75.00	1.35		202.50			
	W01247	2	110.00	1.35		297.00			
	W0828	2	60.00	1.35		162.00			
	W1237	1	110.00	1.35		148.50			
	W1267/W0832/W1271	2	375.00	1.35		1,012.50			
	W0566	1	220.00	1.35		297.00			
	W1245	1	95.00	1.35		128.25			
	W0802	1	40.00	1.35		54.00			
	Cross Road C	1	45.00	1.35		60.75			
	W0574	1	120.00	1.35		162.00			
	W1237 - A	2	230.00	1.35		621.00			
	W0546	1	170.00	1.35		229.50			
	W0534	1	225.00	1.35		303.75			
	W0814	2	125.00	1.35		337.50			
	W0808	1	45.00	1.35		60.75			
	W0538	1	60.00	1.35		81.00			
	W0542	2	80.00	1.35		216.00			
	W0532	1	45.00	1.35		60.75			
	W0843	1	35.00	1.35		47.25			
	W0812	2	118.00	1.35		318.60			
	W0816	2	120.00	1.35		324.00			
	Cross Road 3	2	100.00	1.35		270.00			
	Cross Road A	2	120.00	1.35		324.00			
	Cross Road B	2	85.00	1.35		229.50			
	Cross Road C	2	120.00	1.35		324.00			
	Cross Road D	2	135.00	1.35		364.50			
	Cross Road E	2	125.00	1.35		337.50			
	Cross Road F	2	115.00	1.35		310.50			
	Cross Road G	2	92.00	1.35		248.40			
						8,964.00			
	Consider 15%					1,344.60			
	deduct damaged / missing slab 10%					-134.46			
						1,210.14	**Sqm**	**111.30**	**134688.58**
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	Basic rate	700.00							
	6% AW	42.00							
	Sub Total	742.00							
	Add damaged / missing slab 30%					134.46			
						134.46	**Sqm**	**742.00**	**99,769.32**
4	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408 (P.No.254, I.No.34.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	4226.00							
	6% AW	253.56							
	Sub Total	4479.56							
	New Drain								
	W0484	2	310.00	0.75	0.10	46.50			
	RCC Culvert								
	New Culverts	2	7.00	1.40	0.15	2.94			
		1	6.00	1.40	0.15	1.26			

						50.70	Cum	4479.56	227113.69
5	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13. cement mortar 1:6(P.No.255, I.No.34.8.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	4596.00							
	6% AW	275.76							
	Sub Total	4871.76							
	Raising of Culverts	4	6.00	0.45	0.45	4.86			
						4.86	Cum	4871.76	23,676.75
6	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(P.No 255, I.No.34.11 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5283.00							
	6% AW	316.98							
	Sub Total	5599.98							
	Flagging Course								
	Raising of Culverts	4	6.00	0.45	0.10	1.08			
						1.08	Cum	5599.98	6,047.98
7	Providing laying plain/ reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centring, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specification 15 cm wall and bottom thickness (P.No.275, I.No.37.59.2 of PW, P&IWTD SR 2018-19)								
	Basic rate	6670							
	Area Weightage 6%	400.2							
	Final Rate	7070.2							
		Cum							
	New RCC Drain								
	Bottom Raft								
	W0484	2.00	310.00	0.75	0.15	69.75			
	Walls								
	W0484	4.00	310.00	0.15	0.60	111.60			
						181.35	Cum	7070.2	1282180.77
8	34.17 Providing and laying in position plain/Reinforced cement cement concrete M20 for sub structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. (P.No.257, I.No.34.17 of PW, P&IWTD SR 2018-19)								
	Basic rate	4979							
	6% AW	298.74							
	Sub Total	5277.74							
	Raft								
	RCC Culvert								
	New Culverts	2	7.00	1.20	0.20	3.36			
		1	6.00	1.20	0.20	1.44			
	Side Wall								
	RCC Culvert								
	New Culverts	4	7.00	0.20	0.80	4.48			
		2	6.00	0.20	0.80	1.92			
						11.20	Cum	5277.74	59,110.69

9	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200.**TMT Bars Fe 500** (P.No.229, I.No.28.8.2 of PW, P&IWTD SR 2018-19)								
	Basic rate	68233.00							
	6% AW	4093.98							
	Sub Total	72326.98							
	Consider 50kg/Cum for Drain	1	181.35	50.00		9.07			
	Consider 80kg/Cum for Culvert	1	11.20	80.00		0.90			
						9.96	**Tonne**	**72326.98**	**720376.72**
10	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No.272, I.No.37.66 of PW,P&IWTD SR 2018-19)								
	A.Basic rate	1081.00							
	B.Area Weightage 6%	64.86							
	Total	1145.86							
	Precast Covering Slab								
	W0484	2.00	310.00			620.00			
						620.00	**m**	**1145.86**	**710433.20**
11	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Data rate	5418.00							
	RCC Culvert								
	New Culverts	2	7.00	1.20		16.80			
		1	6.00	1.20		7.20			
	Damaged Slabs	3	6.00	1.50		27.00			
						51.00	**Sqm**	**5418.00**	**276318.00**
12	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)								
	Basic rate	41.00							
	5Km lead & Lift= (2*1.28*4)	10.24							
	Sub Total	51.24							
	6% AW	3.07							
	Total	54.31							
	Road Works								
	W0826	1	75.00	4.80	0.30	108.00			
	W0830	1	210.00	4.50	0.30	283.50			
	W01243	1	100.00	4.50	0.30	135.00			
	W0820	1	215.00	5.50	0.30	354.75			
	Ch 0-80	1	80.00	2.80	0.30	67.20			
	Ch 80-145	1	65.00	5.50	0.30	107.25			
	W0822	1	75.00	5.50	0.30	123.75			
	W01247	1	110.00	5.50	0.30	181.50			
	W0828	1	60.00	4.20	0.30	75.60			
	W1237	1	110.00	4.50	0.30	148.50			
	Narayanaswamy Rd W1591								
	Ch 0-190	2	190.00	1.20	0.30	136.80			
	Ch 190-420	2	230.00	1.20	0.30	165.60			
	Ch 420-545	2	125.00	1.20	0.30	90.00			
	W1267/W0832/W1271	2	375.00	1.20	0.30	270.00			
	W0821	2	170.00	1.20	0.30	122.40			
	W0566	1	220.00	5.20	0.30	343.20			
	W1245	2	95.00	1.20	0.30	68.40			
	W0802	1	40.00	2.50	0.30	30.00			

	Cross Road C	1	45.00	3.80	0.30	51.30			
	Cross Road D	1	105.00	2.90	0.30	91.35			
	W0574	1	120.00	3.20	0.30	115.20			
	W1237 - A	1	230.00	7.80	0.30	538.20			
	W0546	1	170.00	3.60	0.30	183.60			
	W0534	1	225.00	5.50	0.30	371.25			
	Cross Road A	1	135.00	5.50	0.30	222.75			
	Cross Road B	1	45.00	5.00	0.30	67.50			
	W0806	1	40.00	4.00	0.30	48.00			
	W0823	1	135.00	4.60	0.30	186.30			
	W0802- A	1	60.00	4.30	0.30	77.40			
	W0851/W1255	1	120.00	3.50	0.30	126.00			
	W0814	1	125.00	5.50	0.30	206.25			
	W0808	1	45.00	4.50	0.30	60.75			
	W0538	1	60.00	4.30	0.30	77.40			
	W0542	1	80.00	4.80	0.30	115.20			
	W0809	1	45.00	3.80	0.30	51.30			
	W0532	1	45.00	5.00	0.30	67.50			
	W0829/W0831	1	100.00	3.00	0.30	90.00			
	W0843	1	35.00	4.00	0.30	42.00			
	W0532A	1	65.00	4.80	0.30	93.60			
	W0484	2	310.00	1.20	0.30	223.20			
	W0812	2	118.00	1.20	0.30	84.96			
	W0816	2	120.00	1.20	0.30	86.40			
	Cross Road 3	2	100.00	1.20	0.30	72.00			
	Cross Road A	2	120.00	1.20	0.30	86.40			
	Cross Road B	2	85.00	1.20	0.30	61.20			
	Cross Road C	2	120.00	1.20	0.30	86.40			
	Cross Road D	2	135.00	1.20	0.30	97.20			
	Cross Road E	2	125.00	1.20	0.30	90.00			
	Cross Road F	2	115.00	1.20	0.30	82.80			
	Cross Road G	2	92.00	1.20	0.30	66.24			
						6,731.10	**Cum**	**54.31**	**365566.04**
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	6% AW	113.28							
	Sub Total	2001.28							
	Road Works								
	W01243	1	100.00	4.50	0.25	112.50			
	W0820	1	215.00	5.50	0.25	295.63			
	Ch 80-145	1	65.00	5.50	0.25	89.38			
	W0822	1	75.00	5.50	0.25	103.13			
	W01247	1	110.00	5.50	0.25	151.25			
	W0828	1	60.00	4.20	0.25	63.00			
	W1237	1	110.00	4.50	0.25	123.75			
	Narayanaswamy Rd W1591								
	Ch 0-190	2	190.00	1.20	0.25	114.00			
	Ch 190-420	2	230.00	1.20	0.25	138.00			
	Ch 420-545	2	125.00	1.20	0.25	75.00			
	W1267/W0832/W1271	2	375.00	1.20	0.25	225.00			
	W0821	2	170.00	1.20	0.25	102.00			
	W1245	2	95.00	1.20	0.25	57.00			
	W1237 - A	1	230.00	7.80	0.25	448.50			
	Cross Road A	1	135.00	5.50	0.25	185.63			
	Cross Road B	1	45.00	5.00	0.25	56.25			
	W0802- A	1	60.00	4.30	0.25	64.50			
	W0484	2	310.00	1.20	0.25	186.00			
	W0812	2	118.00	1.20	0.25	70.80			
	W0816	2	120.00	1.20	0.25	72.00			
	Cross Road 3	2	100.00	1.20	0.25	60.00			
	Cross Road A	2	120.00	1.20	0.25	72.00			
	Cross Road B	2	85.00	1.20	0.25	51.00			
	Cross Road C	2	120.00	1.20	0.25	72.00			
	Cross Road D	2	135.00	1.20	0.25	81.00			

	Cross Road E	2	125.00	1.20	0.25	75.00			
	Cross Road F	2	115.00	1.20	0.25	69.00			
	Cross Road G	2	92.00	1.20	0.25	55.20			
						3,268.50	Cum	2001.28	6541183.68
14	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PW,P&IWTD SR 2018-19)								
	Basic rate	27							
	6% AW	1.62							
	Sub Total	28.62							
	Road Works								
	W01243	1	100.00	4.50		450.00			
	W0820	1	215.00	5.50		1,182.50			
	Ch 80-145	1	65.00	5.50		357.50			
	W0822	1	75.00	5.50		412.50			
	W01247	1	110.00	5.50		605.00			
	W0828	1	60.00	4.20		252.00			
	W1237	1	110.00	4.50		495.00			
	Narayanaswamy Rd W1591								
	Ch 0-190	2	190.00	1.20		456.00			
	Ch 190-420	2	230.00	1.20		552.00			
	Ch 420-545	2	125.00	1.20		300.00			
	W1267/W0832/W1271	2	375.00	1.20		900.00			
	W0821	2	170.00	1.20		408.00			
	W1245	2	95.00	1.20		228.00			
	W1237 - A	1	230.00	7.80		1,794.00			
	Cross Road A	1	135.00	5.50		742.50			
	Cross Road B	1	45.00	5.00		225.00			
	W0802- A	1	60.00	4.30		258.00			
	W0484	2	310.00	1.20		744.00			
	W0812	2	118.00	1.20		283.20			
	W0816	2	120.00	1.20		288.00			
	Cross Road 3	2	100.00	1.20		240.00			
	Cross Road A	2	120.00	1.20		288.00			
	Cross Road B	2	85.00	1.20		204.00			
	Cross Road C	2	120.00	1.20		288.00			
	Cross Road D	2	135.00	1.20		324.00			
	Cross Road E	2	125.00	1.20		300.00			
	Cross Road F	2	115.00	1.20		276.00			
	Cross Road G	2	92.00	1.20		220.80			
				Sub Total		**13,074.00**			
						13,074.00	**Sqm**	**28.62**	**374177.88**
15	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	5.00							
	Area Weightage 6%	0.30							
	Final Rate	5.30							
	Road Works								
	Narayanaswamy Rd W1591								
	Ch 0-190	1	190.00	5.50		1,045.00			
	Ch 190-420	1	230.00	5.50		1,265.00			
	Ch 420-545	1	125.00	5.50		687.50			
	W1267/W0832/W1271	1	375.00	5.50		2,062.50			
	W0821	1	170.00	5.50		935.00			
	W1245	1	95.00	5.00		475.00			
	W1237 - A	1	230.00	7.80		1,794.00			
	Cross Road A	1	135.00	5.50		742.50			
	Cross Road B	1	45.00	5.00		225.00			
	W0802- A	1	60.00	4.30		258.00			
	W0484	1	310.00	5.50		1,705.00			
	W0812	1	118.00	5.50		649.00			
	W0816	1	120.00	5.50		660.00			

	Cross Road 3	1	100.00	5.50		550.00			
	Cross Road A	1	120.00	5.50		660.00			
	Cross Road B	1	85.00	5.50		467.50			
	Cross Road C	1	120.00	5.50		660.00			
	Cross Road D	1	135.00	5.50		742.50			
	Cross Road E	1	125.00	5.50		687.50			
	Cross Road F	1	115.00	5.50		632.50			
	Cross Road G	1	92.00	5.50		506.00			
	deduct prime coat					**-9,319.50**			
						8,090.00	**Sqm**	**5.30**	**42,877.00**
16	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.158 I.No.21.7 of PW,P&IWTD SR of 2018-19)								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Final Rate	12.72							
	Tack Coat For DBM								
	DBM								
	Road Works								
	Narayanaswamy Rd W1591								
	Ch 0-190	2	190.00	1.20		456.00			
	Ch 190-420	2	230.00	1.20		552.00			
	Ch 420-545	2	125.00	1.20		300.00			
	W1267/W0832/W1271	2	375.00	1.20		900.00			
	W0821	2	170.00	1.20		408.00			
	W1245	2	95.00	1.20		228.00			
	W0484	2	310.00	1.20		744.00			
	W0812	2	118.00	1.20		283.20			
	W0816	2	120.00	1.20		288.00			
	Cross Road 3	2	100.00	1.20		240.00			
	Cross Road A	2	120.00	1.20		288.00			
	Cross Road B	2	85.00	1.20		204.00			
	Cross Road C	2	120.00	1.20		288.00			
	Cross Road D	2	135.00	1.20		324.00			
	Cross Road E	2	125.00	1.20		300.00			
	Cross Road F	2	115.00	1.20		276.00			
	Cross Road G	2	92.00	1.20		220.80			
	Tack Coat For BC								
	Road Works								
	W01243	1	100.00	4.50		450.00			
	W0820	1	215.00	5.50		1,182.50			
	Ch 80-145	1	65.00	5.50		357.50			
	W0822	1	75.00	5.50		412.50			
	W01247	1	110.00	5.50		605.00			
	W0828	1	60.00	4.20		252.00			
	W1237	1	110.00	4.50		495.00			
	Narayanaswamy Rd W1591								
	Ch 0-190	1	190.00	5.50		1,045.00			
	Ch 190-420	1	230.00	5.50		1,265.00			
	Ch 420-545	1	125.00	5.50		687.50			
	W1267/W0832/W1271	1	375.00	5.50		2,062.50			
	W0821	1	170.00	5.50		935.00			
	W1245	1	95.00	5.00		475.00			
	W1237 - A	1	230.00	7.80		1,794.00			
	Cross Road A	1	135.00	5.50		742.50			
	Cross Road B	1	45.00	5.00		225.00			
	W0802- A	1	60.00	4.30		258.00			
	W0484	1	310.00	5.50		1,705.00			
	W0812	1	118.00	5.50		649.00			
	W0816	1	120.00	5.50		660.00			
	Cross Road 3	1	100.00	5.50		550.00			
	Cross Road A	1	120.00	5.50		660.00			
	Cross Road B	1	85.00	5.50		467.50			
	Cross Road C	1	120.00	5.50		660.00			
	Cross Road D	1	135.00	5.50		742.50			
	Cross Road E	1	125.00	5.50		687.50			
	Cross Road F	1	115.00	5.50		632.50			

	Cross Road G	1	92.00	5.50		506.00			
						27,464.00	Sqm	12.72	349342.08
17	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Basic rate	6224.00							
	6% AW	373.44							
	Sub Total	6597.44							
	DBM								
	Road Works								
	Narayanaswamy Rd W1591								
	Ch 0-190	2	190.00	1.20	0.05	22.80			
	Ch 190-420	2	230.00	1.20	0.05	27.60			
	Ch 420-545	2	125.00	1.20	0.05	15.00			
	W1267/W0832/W1271	2	375.00	1.20	0.05	45.00			
	W0821	2	170.00	1.20	0.05	20.40			
	W1245	2	95.00	1.20	0.05	11.40			
	W0484	2	310.00	1.20	0.05	37.20			
	W0812	2	118.00	1.20	0.05	14.16			
	W0816	2	120.00	1.20	0.05	14.40			
	Cross Road 3	2	100.00	1.20	0.05	12.00			
	Cross Road A	2	120.00	1.20	0.05	14.40			
	Cross Road B	2	85.00	1.20	0.05	10.20			
	Cross Road C	2	120.00	1.20	0.05	14.40			
	Cross Road D	2	135.00	1.20	0.05	16.20			
	Cross Road E	2	125.00	1.20	0.05	15.00			
	Cross Road F	2	115.00	1.20	0.05	13.80			
	Cross Road G	2	92.00	1.20	0.05	11.04			
						315.00	Cum	6597.44	2078193.60
18	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PW,P&IWTD SR 2018-19) As per Issue rate dated: 03/01/2020								
	Basic rate (Issue Rate)	7315.00							
	6% AW	438.90							
	Sub Total	7753.90							
	Road Works								
	W01243	1	100.00	4.50	0.04	18.00			
	W0820	1	215.00	5.50	0.04	47.30			
	Ch 80-145	1	65.00	5.50	0.04	14.30			
	W0822	1	75.00	5.50	0.04	16.50			
	W01247	1	110.00	5.50	0.04	24.20			
	W0828	1	60.00	4.20	0.04	10.08			
	W1237	1	110.00	4.50	0.04	19.80			
	Narayanaswamy Rd W1591								
	Ch 0-190	1	190.00	5.50	0.04	41.80			
	Ch 190-420	1	230.00	5.50	0.04	50.60			
	Ch 420-545	1	125.00	5.50	0.04	27.50			
	W1267/W0832/W1271	1	375.00	5.50	0.04	82.50			
	W0821	1	170.00	5.50	0.04	37.40			
	W1245	1	95.00	5.00	0.04	19.00			
	W1237 - A	1	230.00	7.80	0.04	71.76			
	Cross Road A	1	135.00	5.50	0.04	29.70			
	Cross Road B	1	45.00	5.00	0.04	9.00			
	W0802- A	1	60.00	4.30	0.04	10.32			
	W0484	1	310.00	5.50	0.04	68.20			
	W0812	1	118.00	5.50	0.04	25.96			
	W0816	1	120.00	5.50	0.04	26.40			

	Cross Road 3	1	100.00	5.50	0.04	22.00			
	Cross Road A	1	120.00	5.50	0.04	26.40			
	Cross Road B	1	85.00	5.50	0.04	18.70			
	Cross Road C	1	120.00	5.50	0.04	26.40			
	Cross Road D	1	135.00	5.50	0.04	29.70			
	Cross Road E	1	125.00	5.50	0.04	27.50			
	Cross Road F	1	115.00	5.50	0.04	25.30			
	Cross Road G	1	92.00	5.50	0.04	20.24			
						846.56	**Cum**	**7753.90**	**6564141.58**
19	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	6% AW	25.74							
	Sub Total	454.74							
	Center Line	0.50	3,830.00	0.10		191.50			
	Edge Line	2.00	3,500.00	0.10		700.00			
						891.50	**Sqm**	**454.74**	**405400.71**
20	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. . MORTH V Revision Specification No. 601, IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver .((P.No.174, I.No.22.1.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	3665.00							
	6% AW	219.90							
	Sub Total	3884.90							
	W0826	1	75.00	4.80	0.15	54.00			
	W0830	1	210.00	4.50	0.15	141.75			
	Ch 0-80	1	80.00	2.80	0.15	33.60			
	W0566	1	220.00	5.20	0.15	171.60			
	W0802	1	40.00	2.50	0.15	15.00			
	Cross Road C	1	45.00	3.80	0.15	25.65			
	Cross Road D	1	105.00	2.90	0.15	45.68			
	W0574	1	120.00	3.20	0.15	57.60			
	W0546	1	170.00	3.60	0.15	91.80			
	W0534	1	225.00	5.50	0.15	185.63			
	W0806	1	40.00	4.00	0.15	24.00			
	W0823	1	135.00	4.60	0.15	93.15			
	W0851/W1255	1	120.00	3.50	0.15	63.00			
	W0814	1	125.00	5.50	0.15	103.13			
	W0808	1	45.00	4.50	0.15	30.38			
	W0538	1	60.00	4.30	0.15	38.70			
	W0542	1	80.00	4.80	0.15	57.60			
	W0809	1	45.00	3.80	0.15	25.65			
	W0532	1	45.00	5.00	0.15	33.75			
	W0829/W0831	1	100.00	3.00	0.15	45.00			
	W0843	1	35.00	4.00	0.15	21.00			
	W0532A	1	65.00	4.80	0.15	46.80			
						1,404.45	**cum**	**3884.90**	**5456147.81**

21	Constructing un-reinforced, **plain cement concrete for pavements using Grade concrete M30** with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-182,I No-22.6.1)								
	Basic rate	4916.00							
	6% AW	294.96							
	Sub Total	5210.96							
	W0826	1	75.00	4.80	0.15	54.00			
	W0830	1	210.00	4.50	0.15	141.75			
	Ch 0-80	1	80.00	2.80	0.15	33.60			
	W0566	1	220.00	5.20	0.15	171.60			
	W0802	1	40.00	2.50	0.15	15.00			
	Cross Road C	1	45.00	3.80	0.15	25.65			
	Cross Road D	1	105.00	2.90	0.15	45.68			
	W0574	1	120.00	3.20	0.15	57.60			
	W0546	1	170.00	3.60	0.15	91.80			
	W0534	1	225.00	5.50	0.15	185.63			
	W0806	1	40.00	4.00	0.15	24.00			
	W0823	1	135.00	4.60	0.15	93.15			
	W0851/W1255	1	120.00	3.50	0.15	63.00			
	W0814	1	125.00	5.50	0.15	103.13			
	W0808	1	45.00	4.50	0.15	30.38			
	W0538	1	60.00	4.30	0.15	38.70			
	W0542	1	80.00	4.80	0.15	57.60			
	W0809	1	45.00	3.80	0.15	25.65			
	W0532	1	45.00	5.00	0.15	33.75			
	W0829/W0831	1	100.00	3.00	0.15	45.00			
	W0843	1	35.00	4.00	0.15	21.00			
	W0532A	1	65.00	4.80	0.15	46.80			
						1,404.45	**Cum**	**5210.96**	**7318532.77**
						Total Construction Cost			**33542278.70**
22						**12% GST to Construction Cost**			**4025073.44**
23							**5% Tender Premium**		**1677113.94**
24					**Cost towards Preparation of DPR LS**				**375674.00**
25				**Cost towards PMC / Third Party inspection LS**					**375674.00**
								Sub Total	**39995814.08**
26					**Miscellaneous and rounding off**				**4,185.92**
								TOTAL	**40000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Tejus Consultants

Assistant Engineer
BBMP Bangalore

Asst. Executive Engineer,
BBMP Bangalore

Executive Engineer
BBMP, Bangalore
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಯೋಜನೆ ವಿಭಾಗ ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560092.

Bruhat Bangalore Mahanagara Palike

Name of Work: Improvements to roads and drains at Dasarahalli and Surrounding area in Ward No 06

Byatarayanapura sub division

Est Cost: =400.00Lakhs

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80								
	Basic rate	130.00							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	199.80							
	6% AW	11.99							
	Total	211.79							
	Desilt								
	W0630	2	210.00	0.60	0.35	88.20			
	W1049	2	70.00	0.60	0.35	29.40			
	W0364	2	170.00	0.60	0.35	71.40			
	W0344	2	170.00	0.60	0.35	71.40			
	W0340	2	160.00	0.60	0.35	67.20			
	W0537	2	150.00	0.60	0.35	63.00			
	W0334	2	160.00	0.60	0.35	67.20			
	W0346	2	625.00	0.60	0.35	262.50			
	W0489	2	275.00	0.60	0.35	115.50			
	W0477	2	395.00	0.60	0.35	165.90			
	W0455	2	175.00	0.60	0.35	73.50			
	W0929	2	230.00	0.60	0.35	96.60			
	W0935	2	255.00	0.60	0.35	107.10			
	W0937	2	265.00	0.60	0.35	111.30			
	W0995	2	130.00	0.60	0.35	54.60			
	W0634	2	230.00	0.60	0.35	96.60			
	W0276	2	205.00	0.60	0.35	86.10			
	W0481	2	135.00	0.60	0.35	56.70			
	Cross Rd 1	2	400.00	0.60	0.35	168.00			
	W0473	2	305.00	0.60	0.35	128.10			
	W0469	2	265.00	0.60	0.35	111.30			
	W0467	2	230.00	0.60	0.35	96.60			
	W0463	2	140.00	0.60	0.35	58.80			
	W0509	2	295.00	0.60	0.35	123.90			
	W0515	2	305.00	0.60	0.35	128.10			
	W0330	2	120.00	0.60	0.35	50.40			
	W0312	2	115.00	0.60	0.35	48.30			
	W0521	2	300.00	0.60	0.35	126.00			
	W0525	2	310.00	0.60	0.35	130.20			
	W0324	2	120.00	0.60	0.35	50.40			
	W0529	2	90.00	0.60	0.35	37.80			
	W0318	2	75.00	0.60	0.35	31.50			
	W0314	2	90.00	0.60	0.35	37.80			
	W0342	2	141.00	0.60	0.35	59.22			
	Cross Road 1	2	112.00	0.60	0.35	47.04			
	Cross Road 2	2	108.00	0.60	0.35	45.36			
	Culverts								
	Cross Culverts	2	6.00	0.80	0.80	7.68			
	RCC Culvert								
	New Culverts	2	7.00	1.40	1.15	22.54			
		1	6.00	1.40	1.15	9.66			
						3202.90	**Cum**	**211.79**	**678342.19**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)								
	Basic rate	105.00							
	6% AW	6.30							
	Total	111.30							
	Desilt								
	W0630	2	210.00	1.35		567.00			
	W1049	2	70.00	1.35		189.00			
	W0364	2	170.00	1.35		459.00			

	W0344								
	W0340	2	170.00	1.35		459.00			
	W0537	2	160.00	1.35		432.00			
	W0334	2	150.00	1.35		405.00			
	W0346	2	160.00	1.35		432.00			
	W0489	2	625.00	1.35		1687.50			
	W0477	2	275.00	1.35		742.50			
	W0455	2	395.00	1.35		1066.50			
	W0929	2	175.00	1.35		472.50			
	W0935	2	230.00	1.35		621.00			
	W0937	2	255.00	1.35		688.50			
	W0995	2	265.00	1.35		715.50			
	W0634	2	130.00	1.35		351.00			
	W0276	2	230.00	1.35		621.00			
	W0481	2	205.00	1.35		553.50			
	Cross Rd 1	2	135.00	1.35		364.50			
	W0473	2	400.00	1.35		1080.00			
	W0469	2	305.00	1.35		823.50			
	W0467	2	265.00	1.35		715.50			
	W0463	2	230.00	1.35		621.00			
	W0509	2	140.00	1.35		378.00			
		2	295.00	1.35		796.50			
	W0515	2	305.00	1.35		823.50			
	W0330	2	120.00	1.35		324.00			
	W0312	2	115.00	1.35		310.50			
	W0521	2	300.00	1.35		810.00			
	W0525	2	310.00	1.35		837.00			
	W0324	2	120.00	1.35		324.00			
	W0529	2	90.00	1.35		243.00			
	W0318	2	75.00	1.35		202.50			
	W0314	2	90.00	1.35		243.00			
	W0342	2	141.00	1.35		380.70			
	Cross Road 1	2	112.00	1.35		302.40			
	Cross Road 2	2	108.00	1.35		291.60			
						20333.70			
	Consider 15%					**3050.06**			
	deduct damaged / missing slab 10%					-305.01			
						2745.05	**Sqm**	**111.30**	**305524.01**
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	Basic rate	700.00							
	6% AW	42.00							
	Sub Total	742.00							
	Add damaged / missing slab 30%					305.01			
						305.01	**Sqm**	**742.00**	**226314.08**
4	Removing and resetting of footpath slab (P.No.270, I.No.37.56 of PW, P&IWTD SR 2018-19)								
	Basic rate	197.00							
	6% AW	11.82							
	Total	208.82							
	Drain Cover								
	W0630	1.00	210.00	0.90		189.00			
	Culvert Slab	5.00	6.00	1.50		45.00			
						234.00	**Sqm**	**208.82**	**48,863.88**
5	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408 (P.No.254, I.No.34.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	4226.00							
	6% AW	253.56							
	Sub Total	4479.56							
	RCC Culvert								
	New Culverts	2	7.00	1.40	0.15	2.94			
		1	6.00	1.40	0.15	1.26			
						4.20	**Cum**	**4479.56**	**18,814.15**

6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13. cement mortar 1:6(P.No.255, I.No.34.8.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	4596.00							
	6% AW	275.76							
	Sub Total	4871.76							
	Raising of Culverts	4	6.00	0.45	0.45	4.86			
						4.86	**Cum**	**4871.76**	**23,676.75**
7	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(P.No 255, I.No.34.11 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5283.00							
	6% AW	316.98							
	Sub Total	5599.98							
	Flagging Course								
	Raising of Culverts	4	6.00	0.45	0.10	1.08			
						1.08	**Cum**	**5599.98**	**6,047.98**
8	34.17 Providing and laying in position plain/Reinforced cement cement concrete M20 for sub structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. (P.No.257, I.No.34.17 of PW, P&IWTD								
	Basic rate	4979							
	6% AW	298.74							
	Sub Total	5277.74							
	Raft								
	RCC Culvert								
	New Culverts	2	7.00	1.20	0.20	3.36			
		1	6.00	1.20	0.20	1.44			
	Side Wall								
	RCC Culvert								
	New Culverts	4	7.00	0.20	0.80	4.48			
		2	6.00	0.20	0.80	1.92			
						11.20	**Cum**	**5277.74**	**59,110.69**
9	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200.**TMT Bars Fe 500** (P.No.229, I.No.28.8.2 of PW, P&IWTD SR 2018-19)								
	Basic rate	68233.00							
	6% AW	4093.98							
	Sub Total	72326.98							
	Consider 80kg/Cum for Culvert	1	11.20	80.00		0.90			
						0.90	**Tonne**	**72326.98**	**65,094.28**
10	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Data rate	5418.00							
	RCC Culvert								
	New Culverts	2	7.00	1.20		16.80			
		1	6.00	1.20		7.20			
	Damaged Slabs	3	6.00	1.50		27.00			
						51.00	**Sqm**	**5418.00**	**276318.00**

11	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)								
	Basic rate	41.00							
	5Km lead & Lift= (2*1.28*4)	10.24							
	Sub Total	51.24							
	6% AW	3.07							
	Total	54.31							
	Road Works								
	W0630	1	210.00	4.30	0.30	270.90			
	W1049	1	70.00	4.70	0.30	98.70			
	W0364	1	170.00	4.40	0.30	224.40			
	W0344	2	170.00	1.20	0.30	122.40			
	W0340	2	160.00	1.20	0.30	115.20			
	W0537	2	150.00	1.20	0.30	108.00			
	W0334	2	160.00	1.20	0.30	115.20			
	W0346	2	625.00	1.20	0.30	450.00			
	W0489	2	275.00	1.20	0.30	198.00			
	W0477	2	395.00	1.20	0.30	284.40			
	W0455	2	175.00	1.20	0.30	126.00			
	W0929	2	230.00	1.20	0.30	165.60			
	W0935	2	255.00	1.20	0.30	183.60			
	W0937	2	265.00	1.20	0.30	190.80			
	W0995	2	130.00	1.20	0.30	93.60			
	W0634	2	230.00	1.20	0.30	165.60			
	W1005	1	135.00	4.80	0.30	194.40			
	W0276	2	205.00	1.20	0.30	147.60			
	W0481	1	135.00	5.50	0.30	222.75			
	Cross Rd 1	2	400.00	1.20	0.30	288.00			
	W0473	2	305.00	1.20	0.30	219.60			
	W0469	2	265.00	1.20	0.30	190.80			
	W0467	2	230.00	1.20	0.30	165.60			
	W0463	1	140.00	5.50	0.30	231.00			
	W0509	2	295.00	1.20	0.30	212.40			
	W0515	2	305.00	1.20	0.30	219.60			
	W0330	1	120.00	5.50	0.30	198.00			
	W0312	2	115.00	1.20	0.30	82.80			
	W0521	2	300.00	1.20	0.30	216.00			
	W0525	2	310.00	1.20	0.30	223.20			
	W0324	1	120.00	5.50	0.30	198.00			
	W0529	2	90.00	1.20	0.30	64.80			
	W0318	2	75.00	1.20	0.30	54.00			
	W0314	2	90.00	1.20	0.30	64.80			
	W0342	1	141.00	5.50	0.30	232.65			
	Cross Road 1	2	112.00	1.20	0.30	80.64			
	Cross Road 2	2	108.00	1.20	0.30	77.76			
						6496.80	**Cum**	**54.31**	**352841.21**
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	6% AW	113.28							
	Sub Total	2001.28							
	Road Works								
	W0630	1	210.00	4.30	0.25	225.75			
	W1049	1	70.00	4.70	0.25	82.25			
	W0344	2	170.00	1.20	0.25	102.00			
	W0340	2	160.00	1.20	0.25	96.00			
	W0537	2	150.00	1.20	0.25	90.00			
	W0334	2	160.00	1.20	0.25	96.00			

	W0346	2	625.00	1.20	0.25	375.00			
	W0489	2	275.00	1.20	0.25	165.00			
	W0477	2	395.00	1.20	0.25	237.00			
	W0455	2	175.00	1.20	0.25	105.00			
	W0929	2	230.00	1.20	0.25	138.00			
	W0935	2	255.00	1.20	0.25	153.00			
	W0937	2	265.00	1.20	0.25	159.00			
	W0995	2	130.00	1.20	0.25	78.00			
	W0634	2	230.00	1.20	0.25	138.00			
	W1005	1	135.00	4.80	0.25	162.00			
	W0276	2	205.00	1.20	0.25	123.00			
	W0481	1	135.00	5.50	0.25	185.63			
	Cross Rd 1	2	400.00	1.20	0.25	240.00			
	W0473	2	305.00	1.20	0.25	183.00			
	W0469	2	265.00	1.20	0.25	159.00			
	W0467	2	230.00	1.20	0.25	138.00			
	W0463	1	140.00	5.50	0.25	192.50			
	W0509	2	295.00	1.20	0.25	177.00			
	W0515	2	305.00	1.20	0.25	183.00			
	W0330	1	120.00	5.50	0.25	165.00			
	W0312	2	115.00	1.20	0.25	69.00			
	W0521	2	300.00	1.20	0.25	180.00			
	W0525	2	310.00	1.20	0.25	186.00			
	W0324	1	120.00	5.50	0.25	165.00			
	W0529	2	90.00	1.20	0.25	54.00			
	W0318	2	75.00	1.20	0.25	45.00			
	W0314	2	90.00	1.20	0.25	54.00			
	W0342	1	141.00	5.50	0.25	193.88			
	Cross Road 1	2	112.00	1.20	0.25	67.20			
	Cross Road 2	2	108.00	1.20	0.25	64.80			
						5227.00	**Cum**	**2001.28**	**10460690.56**
13	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PW,P&IWTD SR 2018-19)								
	Basic rate	27							
	6% AW	1.62							
	Sub Total	28.62							
	Road Works								
	W0630	1	210.00	4.30		903.00			
	W1049	1	70.00	4.70		329.00			
	W0344	2	170.00	1.20		408.00			
	W0340	2	160.00	1.20		384.00			
	W0537	2	150.00	1.20		360.00			
	W0334	2	160.00	1.20		384.00			
	W0346	2	625.00	1.20		1500.00			
	W0489	2	275.00	1.20		660.00			
	W0477	2	395.00	1.20		948.00			
	W0455	2	175.00	1.20		420.00			
	W0929	2	230.00	1.20		552.00			
	W0935	2	255.00	1.20		612.00			
	W0937	2	265.00	1.20		636.00			
	W0995	2	130.00	1.20		312.00			
	W0634	2	230.00	1.20		552.00			
	W1005	1	135.00	4.80		648.00			
	W0276	2	205.00	1.20		492.00			
	W0481	1	135.00	5.50		742.50			
	Cross Rd 1	2	400.00	1.20		960.00			
	W0473	2	305.00	1.20		732.00			
	W0469	2	265.00	1.20		636.00			
	W0467	2	230.00	1.20		552.00			
	W0463	1	140.00	5.50		770.00			
	W0509	2	295.00	1.20		708.00			
	W0515	2	305.00	1.20		732.00			
	W0330	1	120.00	5.50		660.00			
	W0312	2	115.00	1.20		276.00			

	W0521	2	300.00	1.20		720.00			
	W0525	2	310.00	1.20		744.00			
	W0324	1	120.00	5.50		660.00			
	W0529	2	90.00	1.20		216.00			
	W0318	2	75.00	1.20		180.00			
	W0314	2	90.00	1.20		216.00			
	W0342	1	141.00	5.50		775.50			
	Cross Road 1	2	112.00	1.20		268.80			
	Cross Road 2	2	108.00	1.20		259.20			
					Sub Total	20908.00			
						20908.00	Sqm	28.62	598386.96
14	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	5.00							
	Area Weightage 6%	0.30							
	Final Rate	5.30							
	Road Works								
	W0344	1	170.00	5.50		935.00			
	W0340	1	160.00	5.50		880.00			
	W0537	1	150.00	5.50		825.00			
	W0334	1	160.00	5.50		880.00			
	W0346	1	625.00	5.50		3437.50			
	W0489	1	275.00	5.50		1512.50			
	W0477	1	395.00	5.50		2172.50			
	W0455	1	175.00	5.50		962.50			
	W0929	1	230.00	5.50		1265.00			
	W0935	1	255.00	5.50		1402.50			
	W0937	1	265.00	5.50		1457.50			
	W0995	1	130.00	5.50		715.00			
	W0634	1	230.00	5.50		1265.00			
	W0276	1	205.00	5.50		1127.50			
	Cross Rd 1	1	400.00	5.50		2200.00			
	W0473	1	305.00	5.50		1677.50			
	W0469	1	265.00	5.50		1457.50			
	W0467	1	230.00	5.50		1265.00			
	W0509	1	295.00	5.50		1622.50			
	W0515	1	305.00	5.50		1677.50			
	W0312	1	115.00	5.50		632.50			
	W0521	1	300.00	5.50		1650.00			
	W0525	1	310.00	5.50		1705.00			
	W0529	1	90.00	5.50		495.00			
	W0318	1	75.00	5.50		412.50			
	W0314	1	90.00	5.50		495.00			
	Cross Road 1	1	112.00	5.50		616.00			
	Cross Road 2	1	108.00	5.50		594.00			
	deduct prime coat					-12768.00			
						22569.50	Sqm	5.30	119618.35
15	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.158 I.No.21.7 of PW,P&IWTD SR of 2018-19)								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Final Rate	12.72							
	Tack Coat For DBM								
	DBM								
	Road Works								
	W0344	2	170.00	1.20		408.00			
	W0340	2	160.00	1.20		384.00			
	W0537	2	150.00	1.20		360.00			
	W0334	2	160.00	1.20		384.00			

	W0346	2	625.00	1.20		1500.00			
	W0489	2	275.00	1.20		660.00			
	W0477	2	395.00	1.20		948.00			
	W0455	2	175.00	1.20		420.00			
	W0929	2	230.00	1.20		552.00			
	W0935	2	255.00	1.20		612.00			
	W0937	2	265.00	1.20		636.00			
	W0995	2	130.00	1.20		312.00			
	W0634	2	230.00	1.20		552.00			
	W0276	2	205.00	1.20		492.00			
	Cross Rd 1	2	400.00	1.20		960.00			
	W0473	2	305.00	1.20		732.00			
	W0469	2	265.00	1.20		636.00			
	W0467	2	230.00	1.20		552.00			
	W0509	2	295.00	1.20		708.00			
	W0515	2	305.00	1.20		732.00			
	W0312	2	115.00	1.20		276.00			
	W0521	2	300.00	1.20		720.00			
	W0525	2	310.00	1.20		744.00			
	W0529	2	90.00	1.20		216.00			
	W0318	2	75.00	1.20		180.00			
	W0314	2	90.00	1.20		216.00			
	Cross Road 1	2	112.00	1.20		268.80			
	Cross Road 2	2	108.00	1.20		259.20			
	Tack Coat For BC								
	Road Works								
	W0630	1	210.00	4.30		903.00			
	W1049	1	70.00	4.70		329.00			
	W0344	1	170.00	5.50		935.00			
	W0340	1	160.00	5.50		880.00			
	W0537	1	150.00	5.50		825.00			
	W0334	1	160.00	5.50		880.00			
	W0346	1	625.00	5.50		3437.50			
	W0489	1	275.00	5.50		1512.50			
	W0477	1	395.00	5.50		2172.50			
	W0455	1	175.00	5.50		962.50			
	W0929	1	230.00	5.50		1265.00			
	W0935	1	255.00	5.50		1402.50			
	W0937	1	265.00	5.50		1457.50			
	W0995	1	130.00	5.50		715.00			
	W0634	1	230.00	5.50		1265.00			
	W1005	1	135.00	4.80		648.00			
	W0276	1	205.00	5.50		1127.50			
	Cross Rd 1	1	400.00	5.50		2200.00			
	W0473	1	305.00	5.50		1677.50			
	W0469	1	265.00	5.50		1457.50			
	W0467	1	230.00	5.50		1265.00			
	W0509	1	295.00	5.50		1622.50			
	W0481	1	135.00	5.50		742.50			
	W0463	1	140.00	5.50		770.00			
	W0515	1	305.00	5.50		1677.50			
	W0330	1	120.00	5.50		660.00			
	W0312	1	115.00	5.50		632.50			
	W0521	1	300.00	5.50		1650.00			
	W0525	1	310.00	5.50		1705.00			
	W0324	1	120.00	5.50		660.00			
	W0529	1	90.00	5.50		495.00			
	W0318	1	75.00	5.50		412.50			
	W0314	1	90.00	5.50		495.00			
	W0342	1	141.00	5.50		775.50			
	Cross Road 1	1	112.00	5.50		616.00			
	Cross Road 2	1	108.00	5.50		594.00			
						56245.50	**Sqm**	**12.72**	**715442.76**

16	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen								
	Basic rate	6224.00							
	6% AW	373.44							
	Sub Total	6597.44							
	DBM								
	Road Works								
	W0344	2	170.00	1.20	0.05	20.40			
	W0340	2	160.00	1.20	0.05	19.20			
	W0537	2	150.00	1.20	0.05	18.00			
	W0334	2	160.00	1.20	0.05	19.20			
	W0346	2	625.00	1.20	0.05	75.00			
	W0489	2	275.00	1.20	0.05	33.00			
	W0477	2	395.00	1.20	0.05	47.40			
	W0455	2	175.00	1.20	0.05	21.00			
	W0929	2	230.00	1.20	0.05	27.60			
	W0935	2	255.00	1.20	0.05	30.60			
	W0937	2	265.00	1.20	0.05	31.80			
	W0995	2	130.00	1.20	0.05	15.60			
	W0634	2	230.00	1.20	0.05	27.60			
	W0276	2	205.00	1.20	0.05	24.60			
	Cross Rd 1	2	400.00	1.20	0.05	48.00			
	W0473	2	305.00	1.20	0.05	36.60			
	W0469	2	265.00	1.20	0.05	31.80			
	W0467	2	230.00	1.20	0.05	27.60			
	W0509	2	295.00	1.20	0.05	35.40			
	W0515	2	305.00	1.20	0.05	36.60			
	W0312	2	115.00	1.20	0.05	13.80			
	W0521	2	300.00	1.20	0.05	36.00			
	W0525	2	310.00	1.20	0.05	37.20			
	W0529	2	90.00	1.20	0.05	10.80			
	W0318	2	75.00	1.20	0.05	9.00			
	W0314	2	90.00	1.20	0.05	10.80			
	Cross Road 1	2	112.00	1.20	0.05	13.44			
	Cross Road 2	2	108.00	1.20	0.05	12.96			
						771.00	**Cum**	**6597.44**	**5086626.24**
17	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PW,P&IWTD SR 2018-19) As per Issue rate dated: 03/01/2020								
	Basic rate (Issue Rate)	7315.00							
	6% AW	438.90							
	Sub Total	7753.90							
	Road Works								
	W0630	1	210.00	4.30	0.04	36.12			
	W1049	1	70.00	4.70	0.04	13.16			
	W0344	1	170.00	5.50	0.04	37.40			
	W0340	1	160.00	5.50	0.04	35.20			
	W0537	1	150.00	5.50	0.04	33.00			
	W0334	1	160.00	5.50	0.04	35.20			
	W0346	1	625.00	5.50	0.04	137.50			
	W0489	1	275.00	5.50	0.04	60.50			
	W0477	1	395.00	5.50	0.04	86.90			
	W0455	1	175.00	5.50	0.04	38.50			
	W0929	1	230.00	5.50	0.04	50.60			
	W0935	1	255.00	5.50	0.04	56.10			
	W0937	1	265.00	5.50	0.04	58.30			
	W0995	1	130.00	5.50	0.04	28.60			

	W0634	1	230.00	5.50	0.04	50.60			
	W1005	1	135.00	4.80	0.04	25.92			
	W0276	1	205.00	5.50	0.04	45.10			
	Cross Rd 1	1	400.00	5.50	0.04	88.00			
	W0473	1	305.00	5.50	0.04	67.10			
	W0469	1	265.00	5.50	0.04	58.30			
	W0467	1	230.00	5.50	0.04	50.60			
	W0509	1	295.00	5.50	0.04	64.90			
	W0481	1	135.00	5.50	0.04	29.70			
	W0463	1	140.00	5.50	0.04	30.80			
	W0515	1	305.00	5.50	0.04	67.10			
	W0330	1	120.00	5.50	0.04	26.40			
	W0312	1	115.00	5.50	0.04	25.30			
	W0521	1	300.00	5.50	0.04	66.00			
	W0525	1	310.00	5.50	0.04	68.20			
	W0324	1	120.00	5.50	0.04	26.40			
	W0529	1	90.00	5.50	0.04	19.80			
	W0318	1	75.00	5.50	0.04	16.50			
	W0314	1	90.00	5.50	0.04	19.80			
	W0342	1	141.00	5.50	0.04	31.02			
	Cross Road 1	1	112.00	5.50	0.04	24.64			
	Cross Road 2	1	108.00	5.50	0.04	23.76			
						1633.02	**Cum**	**7753.90**	**12662273.78**
18	**KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-								
	Basic rate	429.00							
	6% AW	25.74							
	Sub Total	454.74							
	Center Line	0.50	7,496.00	0.10		374.80			
	Edge Line	2.00	7,081.00	0.10		1416.20			
						1791.00	**Sqm**	**454.74**	**814439.34**
19	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. . MORTH V Revision Specification No. 601, IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver .((P.No.174, I.No.22.1.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	3665.00							
	6% AW	219.90							
	Sub Total	3884.90							
	W0364	1	170.00	4.40	0.15	112.20			
						112.20	**cum**	**3884.90**	**435885.78**
20	Constructing un-reinforced, **plain cement concrete for pavements using Grade concrete M30** with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 Its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-182,I								

	Basic rate	4916.00							
	6% AW	294.96							
	Sub Total	5210.96							
	W0364	1	170.00	4.40	0.15	112.20			
						112.20	Cum	5210.96	584669.71
						Total Construction Cost			33538980.70
21						12% GST to Construction Cost			4024677.68
22						5% Tender Premium			1676949.04
23						Cost towards Preparation of DPR LS			375637.00
24						Cost towards PMC / Third Party inspection LS			375637.00
								Sub Total	39991881.42
25						Miscellaneous and rounding off			8,118.58
								TOTAL	40000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Tejus Consultants

Assistant Engineer
BBMP Bangalore

Asst. Executive Engineer,
BBMP Bangalore

Executive Engineer,
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike

Name of Work: Improvements to roads and drains at Saraipalya, Bharathnagar and Surrounding area in Ward No 06

Est Cost: =400.00Lakhs

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80								
	Basic rate	130.00							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	199.80							
	6% AW	11.99							
	Total	211.79							
	Desilt								
	W1192	2	325.00	0.60	0.35	136.50			
	W1799	1	155.00	0.60	0.35	32.55			
	W1769	1	120.00	0.60	0.35	25.20			
	W1775	2	100.00	0.60	0.35	42.00			
	W1196	2	90.00	0.60	0.35	37.80			
	W1200	2	85.00	0.60	0.35	35.70			
	W1781	2	110.00	0.60	0.35	46.20			
	W1705	2	75.00	0.60	0.35	31.50			
	W1703	1	75.00	0.60	0.35	15.75			
	W1699	1	75.00	0.60	0.35	15.75			
	W1695	1	74.00	0.60	0.35	15.54			
	W1689	1	75.00	0.60	0.35	15.75			
	W1597	2	35.00	0.60	0.35	14.70			
	W1637	1	36.00	0.60	0.35	7.56			
	Cross Rd A	1	45.00	0.60	0.35	9.45			
	W1078	2	245.00	0.60	0.35	102.90			
	W1573	2	25.00	0.60	0.35	10.50			
	W1583	2	38.00	0.60	0.35	15.96			
	W1599	1	31.00	0.60	0.35	6.51			
	W1613	1	30.00	0.60	0.35	6.30			
	W1631	1	30.00	0.60	0.35	6.30			
	W1669	1	30.00	0.60	0.35	6.30			
	W1074	2	295.00	0.60	0.35	123.90			
	W1571	2	30.00	0.60	0.35	12.60			
	W1581	2	28.00	0.60	0.35	11.76			
	W1589	2	25.00	0.60	0.35	10.50			
	W1611	1	28.00	0.60	0.35	5.88			
	W1629	2	28.00	0.60	0.35	11.76			
	W1647	2	32.00	0.60	0.35	13.44			
	W1685	2	38.00	0.60	0.35	15.96			
	W1070	2	360.00	0.60	0.35	151.20			
	W1072/W01681	2	300.00	0.60	0.35	126.00			
	W1693	2	40.00	0.60	0.35	16.80			
	W0782	1	130.00	0.60	0.35	27.30			
	W1217	1	188.00	0.60	0.35	39.48			
	W1425	1	25.00	0.60	0.35	5.25			
	New Drain								
	Cross Rd A	2	175.00	0.95	0.95	315.88			
	Cross Rd B	2	156.00	0.95	0.95	281.58			
	Cross Rd C	2	225.00	0.95	0.95	406.13			
	Culverts								
	Cross Culverts	2	6.00	0.80	0.80	7.68			
	RCC Culvert								
	New Culverts	3	7.00	1.40	1.15	33.81			
		2	6.00	1.40	1.15	19.32			

						2,272.94	Cum	211.79	481,385.96
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)								
	Basic rate	105.00							
	6% AW	6.30							
	Total	111.30							
	Desilt								
	W1192	2	325.00	1.35		877.50			
	W1799	1	155.00	1.35		209.25			
	W1769	1	120.00	1.35		162.00			
	W1775	2	100.00	1.35		270.00			
	W1196	2	90.00	1.35		243.00			
	W1200	2	85.00	1.35		229.50			
	W1781	2	110.00	1.35		297.00			
	W1705	2	75.00	1.35		202.50			
	W1703	1	75.00	1.35		101.25			
	W1699	1	75.00	1.35		101.25			
	W1695	1	74.00	1.35		99.90			
	W1689	1	75.00	1.35		101.25			
	W1597	2	35.00	1.35		94.50			
	W1637	1	36.00	1.35		48.60			
	Cross Rd A	1	45.00	1.35		60.75			
	W1078	2	245.00	1.35		661.50			
	W1573	2	25.00	1.35		67.50			
	W1583	2	38.00	1.35		102.60			
	W1599	1	31.00	1.35		41.85			
	W1613	1	30.00	1.35		40.50			
	W1631	1	30.00	1.35		40.50			
	W1669	1	30.00	1.35		40.50			
	W1074	2	295.00	1.35		796.50			
	W1571	2	30.00	1.35		81.00			
	W1581	2	28.00	1.35		75.60			
	W1589	2	25.00	1.35		67.50			
	W1611	1	28.00	1.35		37.80			
	W1629	2	28.00	1.35		75.60			
	W1647	2	32.00	1.35		86.40			
	W1685	2	38.00	1.35		102.60			
	W1070	2	360.00	1.35		972.00			
	W1072/W01681	2	300.00	1.35		810.00			
	W1693	2	40.00	1.35		108.00			
	W0782	1	130.00	1.35		175.50			
	W1217	1	188.00	1.35		253.80			
	W1425	1	25.00	1.35		33.75			
						7,769.25			
	Consider 15%					1,165.39			
	deduct damaged / missing slab 15%					-174.81			
						990.58	**Sqm**	**111.30**	**110,251.48**
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	Basic rate	700.00							
	6% AW	42.00							
	Sub Total	742.00							
	Add damaged / missing slab 30%					174.81			
						174.81	**Sqm**	**742.00**	**129,707.63**
4	Removing and resetting of footpath slab (P.No.270, I.No.37.56 of PW, P&IWTD SR 2018-								
	Basic rate	197.00							
	6% AW	11.82							

	Total								
	Culvert Slab	208.82							
		10	7.00	1.50		105.00			
						105.00	**Sqm**	**208.82**	**21,926.10**
5	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408 (P.No.254, I.No.34.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	4226.00							
	6% AW	253.56							
	Sub Total	4479.56							
	New Drain								
	Cross Rd A	2	175.00	0.75	0.10	26.25			
	Cross Rd B	2	156.00	0.75	0.10	23.40			
	Cross Rd C	2	225.00	0.75	0.10	33.75			
	RCC Culvert								
	New Culverts	3	7.00	1.40	0.15	4.41			
		2	6.00	1.40	0.15	2.52			
						90.33	**Cum**	**4479.56**	**404,638.65**
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13. cement mortar 1:6(P.No.255, I.No.34.8.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	4596.00							
	6% AW	275.76							
	Sub Total	4871.76							
	Raising of Culverts	4	6.00	0.45	0.45	4.86			
						4.86	**Cum**	**4871.76**	**23,676.75**
7	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(P.No 255, I.No.34.11 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5283.00							
	6% AW	316.98							
	Sub Total	5599.98							
	Flagging Course								
	Raising of Culverts	4	6.00	0.45	0.10	1.08			
						1.08	**Cum**	**5599.98**	**6,047.98**
8	Providing laying plain/ reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centring, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specification 15 cm wall and bottom thickness (P.No.275, I.No.37.59.2 of PW, P&IWTD SR 2018-19)								
	Basic rate	6670							
	Area Weightage 6%	400.2							
	Final Rate	7070.2							
		Cum							
	New RCC Drain								
	Bottom Raft								
	Cross Rd A	2	175.00	0.75	0.15	39.38			
	Cross Rd B	2	156.00	0.75	0.15	35.10			
	Cross Rd C	2	225.00	0.75	0.15	50.63			
	Walls								

	Cross Rd A	4	175.00	0.15	0.60	63.00			
	Cross Rd B	4	156.00	0.15	0.60	56.16			
	Cross Rd C	4	225.00	0.15	0.60	81.00			
						325.26	**Cum**	**7070.2**	**2,299,653.25**
9	34.17 Providing and laying in position plain/Reinforced cement cement concrete M20 for sub structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. (P.No.257, I.No.34.17 of PW, P&IWTD SR 2018-19)								
	Basic rate	4979							
	6% AW	298.74							
	Sub Total	5277.74							
	Raft								
	RCC Culvert								
	New Culverts	3	7.00	1.20	0.20	5.04			
		2	6.00	1.20	0.20	2.88			
	Side Wall								
	RCC Culvert								
	New Culverts	6	7.00	0.20	0.80	6.72			
		4	6.00	0.20	0.80	3.84			
						18.48	**Cum**	**5277.74**	**97,532.64**
10	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200.**TMT Bars Fe 500** (P.No.229, I.No.28.8.2 of PW, P&IWTD SR 2018-19)								
	Basic rate	68233.00							
	6% AW	4093.98							
	Sub Total	72326.98							
	Consider 50kg/Cum for Drain	1	325.26	50.00		16.26			
	Consider 80kg/Cum for Culvert	1	18.48	80.00		1.48			
						17.74	**Tonne**	**72326.98**	**1,283,080.63**
11	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No.272, I.No.37.66 of PW,P&IWTD SR 2018-19)								
	A.Basic rate	1081.00							
	B.Area Weightage 6%	64.86							
	Total	1145.86							
	Precast Covering Slab								
	Cross Rd A	2	175.00			350.00			
	Cross Rd B	2	156.00			312.00			
	Cross Rd C	2	225.00			450.00			
						1,112.00	**m**	**1145.86**	**1,274,196.32**
12	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Data rate	5418.00							
	RCC Culvert								

	New Culverts	3	7.00	1.20		25.20			
		2	6.00	1.20		14.40			
	Damaged Slabs	7	6.00	1.50		63.00			
						102.60	**Sqm**	**5418.00**	**555,886.80**
13	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)								
	Basic rate	41.00							
	5Km lead & Lift= (2*1.28*4)	10.24							
	Sub Total	51.24							
	6% AW	3.07							
	Total	54.31							
	Road Works								
	W1192	1	325.00	9.00	0.30	877.50			
	W1799	1	155.00	4.80	0.30	223.20			
	W1769	1	120.00	5.50	0.30	198.00			
	W1775	1	100.00	5.50	0.30	165.00			
	W1196	1	90.00	5.50	0.30	148.50			
	W1200	1	85.00	5.00	0.30	127.50			
	W1781	1	110.00	5.50	0.30	181.50			
	W1705	1	75.00	5.00	0.30	112.50			
	W1703	1	75.00	5.50	0.30	123.75			
	W1699	1	75.00	5.50	0.30	123.75			
	W1695	1	74.00	5.50	0.30	122.10			
	W1689	1	75.00	5.50	0.30	123.75			
	W1597	1	35.00	4.50	0.30	47.25			
	W1637	1	36.00	5.50	0.30	59.40			
	Cross Rd A	1	45.00	5.00	0.30	67.50			
	W1078	1	245.00	1.20	0.30	88.20			
	W1573	1	25.00	5.50	0.30	41.25			
	W1583	1	38.00	5.00	0.30	57.00			
	W1599	1	31.00	3.80	0.30	35.34			
	W1613	1	30.00	3.20	0.30	28.80			
	W1631	1	30.00	3.80	0.30	34.20			
	W1669	1	30.00	4.00	0.30	36.00			
	W1074	1	295.00	1.20	0.30	106.20			
	W1571	1	30.00	4.50	0.30	40.50			
	W1581	1	28.00	4.50	0.30	37.80			
	W1589	1	25.00	5.00	0.30	37.50			
	W1611	1	28.00	5.00	0.30	42.00			
	W1629	1	28.00	5.00	0.30	42.00			
	W1647	1	32.00	5.20	0.30	49.92			
	W1685	1	38.00	4.00	0.30	45.60			
	W1198	1	40.00	11.50	0.30	138.00			
	W1194	1	30.00	5.50	0.30	49.50			
	W1765	1	95.00	5.50	0.30	156.75			
	W1575	1	45.00	5.50	0.30	74.25			
	W1587	1	32.00	5.50	0.30	52.80			
	W1595	1	35.00	4.50	0.30	47.25			
	W1603	1	35.00	5.50	0.30	57.75			
	W1625	1	34.00	5.00	0.30	51.00			
	W1673	1	85.00	5.50	0.30	140.25			
	W1585	1	30.00	5.50	0.30	49.50			
	W1665	1	32.00	5.50	0.30	52.80			
	Cross Rd 1	1	20.00	7.50	0.30	45.00			
	W1387	1	162.00	5.50	0.30	267.30			
	Cross Rd 2	1	20.00	4.00	0.30	24.00			
	W0798	1	75.00	5.50	0.30	123.75			
	W1393	1	120.00	5.50	0.30	198.00			

	W0782								
	W1217	1	130.00	4.50	0.30	175.50			
	W1425	1	188.00	5.50	0.30	310.20			
	W1203	1	25.00	4.10	0.30	30.75			
	W1211	1	30.00	4.10	0.30	36.90			
	W1213	1	30.00	4.00	0.30	36.00			
	W1213 A	1	25.00	4.20	0.30	31.50			
	W1217 A	1	30.00	4.20	0.30	37.80			
	W0788	1	20.00	4.20	0.30	25.20			
	W0794	1	30.00	3.80	0.30	34.20			
	W0958	1	40.00	4.00	0.30	48.00			
	W0968	1	35.00	4.00	0.30	42.00			
	W0970	1	40.00	4.20	0.30	50.40			
	W0966	1	40.00	4.00	0.30	48.00			
	W0974	1	130.00	4.00	0.30	156.00			
		1	30.00	4.00	0.30	36.00			
	Cross Rd A	2	175.00	1.20	0.30	126.00			
	Cross Rd B	2	156.00	1.20	0.30	112.32			
	Cross Rd C	2	225.00	1.20	0.30	162.00			
						6,450.18	**Cum**	**54.31**	**350,309.28**
14	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	6% AW	113.28							
	Sub Total	2001.28							
	Road Works								
	W1192	1	325.00	9.00	0.25	731.25			
	W1769	1	120.00	5.50	0.25	165.00			
	W1775	1	100.00	5.50	0.25	137.50			
	W1196	1	90.00	5.50	0.25	123.75			
	W1200	1	85.00	5.00	0.25	106.25			
	W1781	1	110.00	5.50	0.25	151.25			
	W1705	1	75.00	5.00	0.25	93.75			
	W1703	1	75.00	5.50	0.25	103.13			
	W1699	1	75.00	5.50	0.25	103.13			
	W1597	1	35.00	4.50	0.25	39.38			
	W1637	1	36.00	5.50	0.25	49.50			
	Cross Rd A	1	45.00	5.00	0.25	56.25			
	W1078	1	245.00	1.20	0.25	73.50			
	W1074	1	295.00	1.20	0.25	88.50			
	W1198	1	40.00	11.50	0.25	115.00			
	W1765	1	95.00	5.50	0.25	130.63			
	W1575	1	45.00	5.50	0.25	61.88			
	W1587	1	32.00	5.50	0.25	44.00			
	W1595	1	35.00	4.50	0.25	39.38			
	W1603	1	35.00	5.50	0.25	48.13			
	W1625	1	34.00	5.00	0.25	42.50			
	W1673	1	85.00	5.50	0.25	116.88			
	W1665	1	32.00	5.50	0.25	44.00			
	Cross Rd 1	1	20.00	7.50	0.25	37.50			
	W1387	1	162.00	5.50	0.25	222.75			
	Cross Rd 2	1	20.00	4.00	0.25	20.00			
	W0798	1	75.00	5.50	0.25	103.13			
	W1393	1	120.00	5.50	0.25	165.00			
	W0782	1	130.00	4.50	0.25	146.25			
	W1217	1	188.00	5.50	0.25	258.50			
	Cross Rd A	2	175.00	1.20	0.25	105.00			

	Cross Rd B	2	156.00	1.20	0.25	93.60			
	Cross Rd C	2	225.00	1.20	0.25	135.00			
						3,951.23	**Cum**	**2001.28**	**7,907,517.57**
15	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PW,P&IWTD SR 2018-19)								
	Basic rate	27							
	6% AW	1.62							
	Sub Total	28.62							
	Road Works								
	W1192	1	325.00	9.00		2,925.00			
	W1769	1	120.00	5.50		660.00			
	W1775	1	100.00	5.50		550.00			
	W1196	1	90.00	5.50		495.00			
	W1200	1	85.00	5.00		425.00			
	W1781	1	110.00	5.50		605.00			
	W1705	1	75.00	5.00		375.00			
	W1703	1	75.00	5.50		412.50			
	W1699	1	75.00	5.50		412.50			
	W1597	1	35.00	4.50		157.50			
	W1637	1	36.00	5.50		198.00			
	Cross Rd A	1	45.00	5.00		225.00			
	W1078	1	245.00	1.20		294.00			
	W1074	1	295.00	1.20		354.00			
	W1198	1	40.00	11.50		460.00			
	W1765	1	95.00	5.50		522.50			
	W1575	1	45.00	5.50		247.50			
	W1587	1	32.00	5.50		176.00			
	W1595	1	35.00	4.50		157.50			
	W1603	1	35.00	5.50		192.50			
	W1625	1	34.00	5.00		170.00			
	W1673	1	85.00	5.50		467.50			
	W1665	1	32.00	5.50		176.00			
	Cross Rd 1	1	20.00	7.50		150.00			
	W1387	1	162.00	5.50		891.00			
	Cross Rd 2	1	20.00	4.00		80.00			
	W0798	1	75.00	5.50		412.50			
	W1393	1	120.00	5.50		660.00			
	W0782	1	130.00	4.50		585.00			
	W1217	1	188.00	5.50		1,034.00			
	Cross Rd A	2	175.00	1.20		420.00			
	Cross Rd B	2	156.00	1.20		374.40			
	Cross Rd C	2	225.00	1.20		540.00			
				Sub Total		15,804.90			
						15,804.90	**Sqm**	**28.62**	**452,336.24**
16	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	5.00							
	Area Weightage 6%	0.30							
	Final Rate	5.30							
	Road Works								
	W1078	1	245.00	5.50		1,347.50			
	W1074	1	295.00	5.50		1,622.50			
	W1070	1	360.00	5.50		1,980.00			
	W1072/W01681	1	300.00	5.50		1,650.00			

	W1693								
		1	40.00	5.00		200.00			
	Cross Rd A								
	Cross Rd B	1	175.00	5.50		962.50			
	Cross Rd C	1	156.00	5.50		858.00			
	deduct prime coat	1	225.00	5.50		1,237.50			
						-1,982.40			
						7,875.60	**Sqm**	**5.30**	**41,740.68**
17	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.158 I.No.21.7 of PW,P&IWTD SR of 2018-19)								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Final Rate	12.72							
	Tack Coat For DBM								
	DBM								
	Road Works								
	W1192	1	325.00	9.00		2,925.00			
	W1078	1	245.00	1.20		294.00			
	W1074	1	295.00	1.20		354.00			
	W0782	1	130.00	4.50		585.00			
	W1217	1	188.00	5.50		1,034.00			
	Cross Rd A	2	175.00	1.20		420.00			
	Cross Rd B	2	156.00	1.20		374.40			
	Cross Rd C	2	225.00	1.20		540.00			
	Tack Coat For BC								
	Road Works								
	W1192	1	325.00	9.00		2,925.00			
	W1769	1	120.00	5.50		660.00			
	W1775	1	100.00	5.50		550.00			
	W1196	1	90.00	5.50		495.00			
	W1200	1	85.00	5.00		425.00			
	W1781	1	110.00	5.50		605.00			
	W1705	1	75.00	5.00		375.00			
	W1703	1	75.00	5.50		412.50			
	W1699	1	75.00	5.50		412.50			
	W1597	1	35.00	4.50		157.50			
	W1637	1	36.00	5.50		198.00			
	Cross Rd A	1	45.00	5.00		225.00			
	W1078	1	245.00	5.50		1,347.50			
	W1074	1	295.00	5.50		1,622.50			
	W1198	1	40.00	11.50		460.00			
	W1765	1	95.00	5.50		522.50			
	W1575	1	45.00	5.50		247.50			
	W1587	1	32.00	5.50		176.00			
	W1595	1	35.00	4.50		157.50			
	W1603	1	35.00	5.50		192.50			
	W1625	1	34.00	5.00		170.00			
	W1673	1	85.00	5.50		467.50			
	W1665	1	32.00	5.50		176.00			
	Cross Rd 1	1	20.00	7.50		150.00			
	W1387	1	162.00	5.50		891.00			
	Cross Rd 2	1	20.00	4.00		80.00			
	W0798	1	75.00	5.50		412.50			
	W1393	1	120.00	5.50		660.00			
	W0782	1	130.00	4.50		585.00			
	W1217	1	188.00	5.50		1,034.00			
	W1070	1	360.00	5.50		1,980.00			
	W1072/W01681	1	300.00	5.50		1,650.00			

	W1693								
		1	40.00	5.00		200.00			
	Cross Rd A								
	Cross Rd B	1	175.00	5.50		962.50			
	Cross Rd C	1	156.00	5.50		858.00			
		1	225.00	5.50		1,237.50			
						30,206.90	**Sqm**	**12.72**	**384,231.77**
18	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Basic rate	6224.00							
	6% AW	373.44							
	Sub Total	6597.44							
	DBM								
	Road Works								
	W1192	1	325.00	9.00	0.05	146.25			
	W1078	1	245.00	1.20	0.05	14.70			
	W1074	1	295.00	1.20	0.05	17.70			
	W0782	1	130.00	4.50	0.05	29.25			
	W1217	1	188.00	5.50	0.05	51.70			
	Cross Rd A	2	175.00	1.20	0.05	21.00			
	Cross Rd B	2	156.00	1.20	0.05	18.72			
	Cross Rd C	2	225.00	1.20	0.05	27.00			
						326.32	**Cum**	**6597.44**	**2,152,876.62**
19	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PW,P&IWTD SR 2018-19) As per Issue rate dated: 03/01/2020								
	Basic rate (Issue Rate)	7315.00							
	6% AW	438.90							
	Sub Total	7753.90							
	Road Works								
	W1192	1	325.00	9.00	0.04	117.00			
	W1769	1	120.00	5.50	0.04	26.40			
	W1775	1	100.00	5.50	0.04	22.00			
	W1196	1	90.00	5.50	0.04	19.80			
	W1200	1	85.00	5.00	0.04	17.00			
	W1781	1	110.00	5.50	0.04	24.20			
	W1705	1	75.00	5.00	0.04	15.00			
	W1703	1	75.00	5.50	0.04	16.50			
	W1699	1	75.00	5.50	0.04	16.50			
	W1597	1	35.00	4.50	0.04	6.30			
	W1637	1	36.00	5.50	0.04	7.92			
	Cross Rd A	1	45.00	5.00	0.04	9.00			
	W1078	1	245.00	5.50	0.04	53.90			
	W1074	1	295.00	5.50	0.04	64.90			
	W1198	1	40.00	11.50	0.04	18.40			
	W1765	1	95.00	5.50	0.04	20.90			
	W1575	1	45.00	5.50	0.04	9.90			
	W1587	1	32.00	5.50	0.04	7.04			

	W1595								
	W1603	1	35.00	4.50	0.04	6.30			
	W1625	1	35.00	5.50	0.04	7.70			
	W1673	1	34.00	5.00	0.04	6.80			
	W1665	1	85.00	5.50	0.04	18.70			
	Cross Rd 1	1	32.00	5.50	0.04	7.04			
	W1387	1	20.00	7.50	0.04	6.00			
	Cross Rd 2	1	162.00	5.50	0.04	35.64			
	W0798	1	20.00	4.00	0.04	3.20			
	W1393	1	75.00	5.50	0.04	16.50			
	W0782	1	120.00	5.50	0.04	26.40			
	W1217	1	130.00	4.50	0.04	23.40			
	W1070	1	188.00	5.50	0.04	41.36			
	W1072/W01681	1	360.00	5.50	0.04	79.20			
	W1693	1	300.00	5.50	0.04	66.00			
		1	40.00	5.00	0.04	8.00			
	Cross Rd A	1	175.00	5.50	0.04	38.50			
	Cross Rd B	1	156.00	5.50	0.04	34.32			
	Cross Rd C	1	225.00	5.50	0.04	49.50			
						947.22	**Cum**	**7753.90**	**7,344,649.16**
20	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	6% AW	25.74							
	Sub Total	454.74							
	Centre Line	0.50	4,115.00	0.10		205.75			
	Edge Line	2	3,895.00	0.10		779.00			
						984.75	**Sqm**	**454.74**	**447,805.22**
21	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. . MORTH V Revision Specification No. 601, IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver .((P.No.174, I.No.22.1.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	3665.00							
	6% AW	219.90							
	Sub Total	3884.90							
	W1799	1	155.00	4.80	0.15	111.60			
	W1695	1	74.00	5.50	0.15	61.05			
	W1689	1	75.00	5.50	0.15	61.88			
	W1573	1	25.00	5.50	0.15	20.63			
	W1583	1	38.00	5.00	0.15	28.50			
	W1599	1	31.00	3.80	0.15	17.67			
	W1613	1	30.00	3.20	0.15	14.40			
	W1631	1	30.00	3.80	0.15	17.10			
	W1669	1	30.00	4.00	0.15	18.00			

	W1571								
	W1581	1	30.00	4.50	0.15	20.25			
	W1589	1	28.00	4.50	0.15	18.90			
	W1611	1	25.00	5.00	0.15	18.75			
	W1629	1	28.00	5.00	0.15	21.00			
	W1647	1	28.00	5.00	0.15	21.00			
	W1685	1	32.00	5.20	0.15	24.96			
	W1194	1	38.00	4.00	0.15	22.80			
	W1585	1	30.00	5.50	0.15	24.75			
	W1425	1	30.00	5.50	0.15	24.75			
	W1203	1	25.00	4.10	0.15	15.38			
	W1211	1	30.00	4.10	0.15	18.45			
	W1213	1	30.00	4.00	0.15	18.00			
	W1213 A	1	25.00	4.20	0.15	15.75			
	W1217 A	1	30.00	4.20	0.15	18.90			
	W0788	1	20.00	4.20	0.15	12.60			
	W0794	1	30.00	3.80	0.15	17.10			
	W0958	1	40.00	4.00	0.15	24.00			
	W0968	1	35.00	4.00	0.15	21.00			
	W0970	1	40.00	4.20	0.15	25.20			
	W0966	1	40.00	4.00	0.15	24.00			
	W0974	1	130.00	4.00	0.15	78.00			
		1	30.00	4.00	0.15	18.00			
						854.36	**cum**	**3884.90**	**3,319,083.74**
22	Constructing un-reinforced, **plain cement concrete for pavements using Grade concrete M30** with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-182,I No-22.6.1)								
	Basic rate	4916.00							
	6% AW	294.96							
	Sub Total	5210.96							
	W1799	1	155.00	4.80	0.15	111.60			
	W1695	1	74.00	5.50	0.15	61.05			
	W1689	1	75.00	5.50	0.15	61.88			
	W1573	1	25.00	5.50	0.15	20.63			
	W1583	1	38.00	5.00	0.15	28.50			
	W1599	1	31.00	3.80	0.15	17.67			
	W1613	1	30.00	3.20	0.15	14.40			
	W1631	1	30.00	3.80	0.15	17.10			
	W1669	1	30.00	4.00	0.15	18.00			
	W1571	1	30.00	4.50	0.15	20.25			
	W1581	1	28.00	4.50	0.15	18.90			
	W1589	1	25.00	5.00	0.15	18.75			
	W1611	1	28.00	5.00	0.15	21.00			
	W1629	1	28.00	5.00	0.15	21.00			
	W1647	1	32.00	5.20	0.15	24.96			
	W1685	1	38.00	4.00	0.15	22.80			
	W1194	1	30.00	5.50	0.15	24.75			
	W1585	1	30.00	5.50	0.15	24.75			
	W1425	1	25.00	4.10	0.15	15.38			

	W1203								
	W1211	1	30.00	4.10	0.15	18.45			
	W1213	1	30.00	4.00	0.15	18.00			
	W1213 A	1	25.00	4.20	0.15	15.75			
	W1217 A	1	30.00	4.20	0.15	18.90			
	W0788	1	20.00	4.20	0.15	12.60			
	W0794	1	30.00	3.80	0.15	17.10			
	W0958	1	40.00	4.00	0.15	24.00			
	W0968	1	35.00	4.00	0.15	21.00			
	W0970	1	40.00	4.20	0.15	25.20			
	W0966	1	40.00	4.00	0.15	24.00			
	W0974	1	130.00	4.00	0.15	78.00			
		1	30.00	4.00	0.15	18.00			
						854.36	Cum	5210.96	4,452,009.73
23								Total Construction Cost	33,540,544.19
24								12% GST to Construction Cost	4,024,865.30
25								5% Tender Premium	1,677,027.21
26								Cost towards Preparation of DPR LS	375,655.00
								Cost towards PMC / Third Party inspection LS	375,655.00
27								Sub Total	39,993,746.71
								Miscellaneous and rounding off	6,253.29
								TOTAL	40,000,000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Tejus Consultants

Assistant Engineer
BBMP Bangalore

Asst. Executive Engineer,
BBMP Bangalore

Executive Engineer
BBMP Bangalore

ಕಾರ್ಯ ಪಾಲಕ ಇಂಜಿನಿಯರ್ ಪಶ್ಚಿಮ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560092.

Bruhat Bangalore Mahanagara Palike

Name of Work: Improvements to roads and drains at Rachenahalli and Surrounding area in Ward No 06

Est Cost: =500.00Lakhs

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80								
	Basic rate	130.00							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	199.80							
	6% AW	11.99							
	Total	211.79							
	Desilt								
	W0723	1	125.00	0.60	0.35	26.25			
	W0727	1	200.00	0.60	0.35	42.00			
	W0735	1	140.00	0.60	0.35	29.40			
	W0729	1	145.00	0.60	0.35	30.45			
	W0743	1	135.00	0.60	0.35	28.35			
	W0749	1	125.00	0.60	0.35	26.25			
	W0753	1	130.00	0.60	0.35	27.30			
	W0474	2	250.00	0.60	0.35	105.00			
	W0478	2	250.00	0.60	0.35	105.00			
	W0734	1	255.00	0.60	0.35	53.55			
	W0738	1	125.00	0.60	0.35	26.25			
	W0404/I0243								
	Ch 235 - 400	2	165.00	0.60	0.35	69.30			
	Ch 400 - 490	2	90.00	0.60	0.35	37.80			
	Ch 490 - 865	2	375.00	0.60	0.35	157.50			
	Manasa Residency Road	1	95.00	0.60	0.35	19.95			
	W0494	2	95.00	0.60	0.35	39.90			
	W0761	1	40.00	0.60	0.35	8.40			
	W0785	1	100.00	0.60	0.35	21.00			
	W0791	1	70.00	0.60	0.35	14.70			
	W0797	1	90.00	0.60	0.35	18.90			
	Amarjyothinagar								
	W0744 - 8th A Cr	1	80.00	0.60	0.35	16.80			
	W1205 - 7th A Cr	1	85.00	0.60	0.35	17.85			
	W1215 - 6th A Cr	1	100.00	0.60	0.35	21.00			
	W1219 - 5th A Cr	1	55.00	0.60	0.35	11.55			
	W1223 - 4th A Cr	1	55.00	0.60	0.35	11.55			
	W1229 - 3rd A Cr	1	55.00	0.60	0.35	11.55			
	W1233 - 2nd A Cr	1	55.00	0.60	0.35	11.55			
	W1235 - 1st A Cr	1	55.00	0.60	0.35	11.55			
	W0768	1	120.00	0.60	0.35	25.20			
	W0772	2	115.00	0.60	0.35	48.30			
	W0776	1	120.00	0.60	0.35	25.20			
	W0780	2	130.00	0.60	0.35	54.60			
	W0782	2	120.00	0.60	0.35	50.40			
	W1183	2	40.00	0.60	0.35	16.80			
	W1185	1	30.00	0.60	0.35	6.30			
	W0742	2	175.00	0.60	0.35	73.50			
	Cross Rd-1 (ATZ Splender	2	240.00	0.60	0.35	100.80			
	Cross Rd-A	2	255.00	0.60	0.35	107.10			
	Cross Rd-B	2	235.00	0.60	0.35	98.70			
	Cross Rd-C	2	310.00	0.60	0.35	130.20			
	Cross Rd-D	2	265.00	0.60	0.35	111.30			
	Cross Rd-E	2	295.00	0.60	0.35	123.90			
	Cross Rd-F	2	280.00	0.60	0.35	117.60			
	Cross Rd-G	2	265.00	0.60	0.35	111.30			
	1st Cross Rd	2	165.00	0.60	0.35	69.30			
	2nd Cross Rd	2	155.00	0.60	0.35	65.10			
	3rd Cross Rd	2	150.00	0.60	0.35	63.00			
	4th Cross Rd	2	145.00	0.60	0.35	60.90			
	5th Cross Rd	2	180.00	0.60	0.35	75.60			
	6th Cross Rd	2	128.00	0.60	0.35	53.76			

	New Drain								
	Cross Rd A	2	150.00	0.95	0.95	270.75			
	Cross Rd B	2	100.00	0.95	0.95	180.50			
	Culverts								
	Cross Culverts	2	6.00	0.80	0.80	7.68			
	RCC Culvert								
	New Culverts								
		2	7.00	1.40	1.15	22.54			
		3	6.00	1.40	1.15	28.98			
						3,099.96	**Cum**	**211.79**	**656,540.53**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)								
	Basic rate	105.00							
	6% AW	6.30							
	Total	111.30							
	Desilt								
	W0723	1	125.00	1.35		168.75			
	W0727	1	200.00	1.35		270.00			
	W0735	1	140.00	1.35		189.00			
	W0729	1	145.00	1.35		195.75			
	W0743	1	135.00	1.35		182.25			
	W0749	1	125.00	1.35		168.75			
	W0753	1	130.00	1.35		175.50			
	W0474	2	250.00	1.35		675.00			
	W0478	2	250.00	1.35		675.00			
	W0734	1	255.00	1.35		344.25			
	W0738	1	125.00	1.35		168.75			
	W0404/I0243								
	Ch 235 - 400	2	165.00	1.35		445.50			
	Ch 400 - 490	2	90.00	1.35		243.00			
	Ch 490 - 865	2	375.00	1.35		1,012.50			
	Manasa Residency Road	1	95.00	1.35		128.25			
	W0494	2	95.00	1.35		256.50			
	W0761	1	40.00	1.35		54.00			
	W0785	1	100.00	1.35		135.00			
	W0791	1	70.00	1.35		94.50			
	W0797	1	90.00	1.35		121.50			
	Amarjyothinagar								
	W0744 - 8th A Cr	1	80.00	1.35		108.00			
	W1205 - 7th A Cr	1	85.00	1.35		114.75			
	W1215 - 6th A Cr	1	100.00	1.35		135.00			
	W1219 - 5th A Cr	1	55.00	1.35		74.25			
	W1223 - 4th A Cr	1	55.00	1.35		74.25			
	W1229 - 3rd A Cr	1	55.00	1.35		74.25			
	W1233 - 2nd A Cr	1	55.00	1.35		74.25			
	W1235 - 1st A Cr	1	55.00	1.35		74.25			
	W0768	1	120.00	1.35		162.00			
	W0772	2	115.00	1.35		310.50			
	W0776	1	120.00	1.35		162.00			
	W0780	2	130.00	1.35		351.00			
	W0782	2	120.00	1.35		324.00			
	W1183	2	40.00	1.35		108.00			
	W1185	1	30.00	1.35		40.50			
	W0742	2	175.00	1.35		472.50			
	Cross Rd-1 (ATZ Splender	2	240.00	1.35		648.00			
	Cross Rd-A	2	255.00	1.35		688.50			
	Cross Rd-B	2	235.00	1.35		634.50			
	Cross Rd-C	2	310.00	1.35		837.00			
	Cross Rd-D	2	265.00	1.35		715.50			
	Cross Rd-E	2	295.00	1.35		796.50			
	Cross Rd-F	2	280.00	1.35		756.00			
	Cross Rd-G	2	265.00	1.35		715.50			
	1st Cross Rd	2	165.00	1.35		445.50			
	2nd Cross Rd	2	155.00	1.35		418.50			
	3rd Cross Rd	2	150.00	1.35		405.00			
	4th Cross Rd	2	145.00	1.35		391.50			
	5th Cross Rd	2	180.00	1.35		486.00			
	6th Cross Rd	2	128.00	1.35		345.60			
						16,646.85			
	Consider 15%					2,497.03			

	deduct damaged / missing slab 10%					-249.70			
						2,247.32	Sqm	111.3	250,127.24
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	Basic rate	700.00							
	6% AW	42.00							
	Sub Total	742.00							
	Add damaged / missing slab 10%					249.70			
						249.70	Sqm	742	185,279.44
4	Removing and resetting of footpath slab (P.No.270, I.No.37.56 of PW, P&IWTD SR 2018-19)								
	Basic rate	197.00							
	6% AW	11.82							
	Total	208.82							
	Culvert Slab	8	7.00	1.50		84.00			
						84.00	Sqm	208.82	17,540.80
5	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408 (P.No.254, I.No.34.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	4226.00							
	6% AW	253.56							
	Sub Total	4479.56							
	New Drain								
	Cross Rd A	2	150.00	0.75	0.10	22.50			
	Cross Rd B	2	100.00	0.75	0.10	15.00			
	RCC Culvert								
	New Culverts	2	7.00	1.40	0.15	2.94			
		3	6.00	1.40	0.15	3.78			
						44.22	Cum	4479.56	198,086.14
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13. cement mortar 1:6(P.No.255, I.No.34.8.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	4596.00							
	6% AW	275.76							
	Sub Total	4871.76							
	Raising of Culverts	4	6.00	0.45	0.45	4.86			
						4.86	Cum	4871.76	23,676.75
7	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(P.No 255, I.No.34.11 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5283.00							
	6% AW	316.98							
	Sub Total	5599.98							
	Flagging Course								
	Raising of Culverts	4	6.00	0.45	0.10	1.08			
						1.08	Cum	5599.98	6,047.98
8	Providing laying plain/ reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centring, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specification 15 cm wall and bottom thickness (P.No.275, I.No.37.59.2 of PW, P&IWTD SR 2018-19)								

	Basic rate	6670							
	Area Weightage 6%	400.2							
	Final Rate	7070.2							
		Cum							
	New RCC Drain								
	Bottom Raft								
	Cross Rd A	2	150.00	0.75	0.15	33.75			
	Cross Rd B	2	100.00	0.75	0.15	22.50			
	Walls								
	Cross Rd A	4	150.00	0.15	0.60	54.00			
	Cross Rd B	4	100.00	0.15	0.60	36.00			
						146.25	**Cum**	**7070.2**	**1,034,016.75**
9	34.17 Providing and laying in position plain/Reinforced cement cement concrete M20 for sub structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. (P.No.257, I.No.34.17 of PW, P&IWTD SR 2018-19)								
	Basic rate	4979.00							
	6% AW	298.74							
	Sub Total	5277.74							
	Raft								
	RCC Culvert								
	New Culverts	2	7.00	1.20	0.20	3.36			
		3	6.00	1.20	0.20	4.32			
	Side Wall								
	RCC Culvert								
	New Culverts	4	7.00	0.20	0.80	4.48			
		6	6.00	0.20	0.80	5.76			
						17.92	**Cum**	**5277.74**	**94,577.10**
10	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200.**TMT Bars Fe 500** (P.No.229, I.No.28.8.2 of PW, P&IWTD SR 2018-19)								
	Basic rate	68233.00							
	6% AW	4093.98							
	Sub Total	72326.98							
	Consider 50kg/Cum for Drain	1	146.25	50.00		7.31			
	Consider 80kg/Cum for	1	17.92	80.00		1.43			
						8.75	**Tonne**	**72326.98**	**632,861.08**
11	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No.272, I.No.37.66 of PW,P&IWTD SR								
	A.Basic rate	1081.00							
	B.Area Weightage 6%	64.86							
	Total	1145.86							
	Precast Covering Slab								
	Cross Rd A	2	150.00			300.00			
	Cross Rd B	2	100.00			200.00			
						500.00	**m**	**1145.86**	**572,930.00**
12	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Data rate	5418.00							
	RCC Culvert								
	New Culverts	2	7.00	1.20		16.80			
		3	6.00	1.20		21.60			

	Damaged Slabs	4	6.00	1.50		36.00			
						74.40	**Sqm**	**5418**	**403,099.20**
13	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)								
	Basic rate	41.00							
	5Km lead & Lift= (2*1.28*4)	10.24							
	Sub Total	51.24							
	6% AW	3.07							
	Total	54.31							
	Road Works								
	W0723	1	125.00	4.20	0.30	157.50			
	W0727	1	200.00	4.00	0.30	240.00			
	W0735	1	140.00	5.00	0.30	210.00			
	W0729	1	145.00	3.20	0.30	139.20			
	W0743	1	135.00	4.80	0.30	194.40			
	W0749	1	125.00	5.00	0.30	187.50			
	W0753	1	130.00	5.50	0.30	214.50			
	W0474	1	250.00	4.80	0.30	360.00			
	W0478	1	250.00	4.60	0.30	345.00			
	W0734	1	255.00	4.20	0.30	321.30			
	W0738	1	125.00	4.00	0.30	150.00			
	W0404/I0243								
	Ch 0 - 235	1	235.00	1.50	0.30	105.75			
	Ch 235 - 400	1	165.00	3.00	0.30	148.50			
	Ch 400 - 490	1	90.00	3.00	0.30	81.00			
	Ch 490 - 865	1	375.00	6.30	0.30	708.75			
	Manasa Residency Road	1	95.00	1.20	0.30	34.20			
	W0494	1	95.00	5.50	0.30	156.75			
	W0761	1	40.00	4.80	0.30	57.60			
	W0785	1	100.00	4.00	0.30	120.00			
	W0791	1	70.00	5.00	0.30	105.00			
	W0797	1	90.00	4.00	0.30	108.00			
	W0737	1	105.00	5.50	0.30	173.25			
	W0763	1	35.00	4.90	0.30	51.45			
	W0769	1	35.00	4.80	0.30	50.40			
	W0773	1	100.00	5.50	0.30	165.00			
	W0767	1	60.00	3.60	0.30	64.80			
	W0779	1	95.00	3.00	0.30	85.50			
	Amarjyothinagar								
	W0744 - 8th A Cr	1	80.00	5.50	0.30	132.00			
	W1205 - 7th A Cr	1	85.00	4.80	0.30	122.40			
	W1215 - 6th A Cr	1	100.00	4.70	0.30	141.00			
	W1219 - 5th A Cr	1	55.00	3.90	0.30	64.35			
	W1223 - 4th A Cr	1	55.00	5.50	0.30	90.75			
	W1229 - 3rd A Cr	1	55.00	5.50	0.30	90.75			
	W1233 - 2nd A Cr	1	55.00	5.50	0.30	90.75			
	W1235 - 1st A Cr	1	55.00	5.50	0.30	90.75			
	W0768	1	120.00	5.00	0.30	180.00			
	W0772	1	115.00	4.50	0.30	155.25			
	W0776	1	120.00	4.80	0.30	172.80			
	W0780	1	130.00	4.00	0.30	156.00			
	W0782	1	120.00	4.50	0.30	162.00			
	W1183	1	40.00	4.80	0.30	57.60			
	W1185	1	30.00	4.30	0.30	38.70			
	W0742	1	175.00	4.80	0.30	252.00			
	Cross Rd-1 (ATZ Splender	1	240.00	5.50	0.30	396.00			
	W1201	1	35.00	4.40	0.30	46.20			
	W1197	1	30.00	4.30	0.30	38.70			
	W1193	1	35.00	4.30	0.30	45.15			
	W0755	1	125.00	5.00	0.30	187.50			
	Cross Rd-A	2	255.00	1.20	0.30	183.60			
	Cross Rd-B	2	235.00	1.20	0.30	169.20			
	Cross Rd-C	2	310.00	1.20	0.30	223.20			
	Cross Rd-D	2	265.00	1.20	0.30	190.80			
	Cross Rd-E	2	295.00	1.20	0.30	212.40			

	Cross Rd-F	2	280.00	1.20	0.30	201.60			
	Cross Rd-G	2	265.00	1.20	0.30	190.80			
	1st Cross Rd	2	165.00	1.20	0.30	118.80			
	2nd Cross Rd	2	155.00	1.20	0.30	111.60			
	3rd Cross Rd	2	150.00	1.20	0.30	108.00			
	4th Cross Rd	2	145.00	1.20	0.30	104.40			
	5th Cross Rd	2	180.00	1.20	0.30	129.60			
	6th Cross Rd	2	128.00	1.20	0.30	92.16			
						9,482.16	Cum	54.31	514,976.11
14	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	6% AW	113.28							
	Sub Total	2001.28							
	Road Works								
	W0727	1	200.00	4.00	0.25	200.00			
	W0735	1	140.00	5.00	0.25	175.00			
	W0749	1	125.00	5.00	0.25	156.25			
	W0753	1	130.00	5.50	0.25	178.75			
	W0474	1	250.00	4.80	0.25	300.00			
	W0478	1	250.00	4.60	0.25	287.50			
	W0734	1	255.00	4.20	0.25	267.75			
	W0738	1	125.00	4.00	0.25	125.00			
	W0404/I0243								
	Ch 0 - 235	1	235.00	1.50	0.25	88.13			
	Ch 235 - 400	1	165.00	3.00	0.25	123.75			
	Ch 400 - 490	1	90.00	3.00	0.25	67.50			
	Ch 490 - 865	1	375.00	6.30	0.25	590.63			
	Manasa Residency Road	1	95.00	1.20	0.25	28.50			
	W0494	1	95.00	5.50	0.25	130.63			
	W0761	1	40.00	4.80	0.25	48.00			
	W0785	1	100.00	4.00	0.25	100.00			
	W0791	1	70.00	5.00	0.25	87.50			
	W0797	1	90.00	4.00	0.25	90.00			
	W0737	1	105.00	5.50	0.25	144.38			
	W0763	1	35.00	4.90	0.25	42.88			
	W0769	1	35.00	4.80	0.25	42.00			
	W0773	1	100.00	5.50	0.25	137.50			
	W0767	1	60.00	3.60	0.25	54.00			
	Amarjyothinagar								
	W0744 - 8th A Cr	1	80.00	5.50	0.25	110.00			
	W1205 - 7th A Cr	1	85.00	4.80	0.25	102.00			
	W1215 - 6th A Cr	1	100.00	4.70	0.25	117.50			
	W1219 - 5th A Cr	1	55.00	3.90	0.25	53.63			
	W1223 - 4th A Cr	1	55.00	5.50	0.25	75.63			
	W1229 - 3rd A Cr	1	55.00	5.50	0.25	75.63			
	W1233 - 2nd A Cr	1	55.00	5.50	0.25	75.63			
	W1235 - 1st A Cr	1	55.00	5.50	0.25	75.63			
	W0768	1	120.00	5.00	0.25	150.00			
	W0772	1	115.00	4.50	0.25	129.38			
	W0776	1	120.00	4.80	0.25	144.00			
	W0780	1	130.00	4.00	0.25	130.00			
	W0782	1	120.00	4.50	0.25	135.00			
	W1183	1	40.00	4.80	0.25	48.00			
	W1185	1	30.00	4.30	0.25	32.25			
	W0742	1	175.00	4.80	0.25	210.00			
	Cross Rd-1 (ATZ Splender	1	240.00	5.50	0.25	330.00			
	W1201	1	35.00	4.40	0.25	38.50			
	W1197	1	30.00	4.30	0.25	32.25			
	W1193	1	35.00	4.30	0.25	37.63			
	W0755	1	125.00	5.00	0.25	156.25			
	Cross Rd-A	2	255.00	1.20	0.25	153.00			
	Cross Rd-B	2	235.00	1.20	0.25	141.00			
	Cross Rd-C	2	310.00	1.20	0.25	186.00			
	Cross Rd-D	2	265.00	1.20	0.25	159.00			
	Cross Rd-E	2	295.00	1.20	0.25	177.00			

	Cross Rd-F	2	280.00	1.20	0.25	168.00			
	Cross Rd-G	2	265.00	1.20	0.25	159.00			
	1st Cross Rd	2	165.00	1.20	0.25	99.00			
	2nd Cross Rd	2	155.00	1.20	0.25	93.00			
	3rd Cross Rd	2	150.00	1.20	0.25	90.00			
	4th Cross Rd	2	145.00	1.20	0.25	87.00			
	5th Cross Rd	2	180.00	1.20	0.25	108.00			
	6th Cross Rd	2	128.00	1.20	0.25	76.80			
						7,421.30	Cum	2001.28	14,852,099.26
15	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PW,P&IWTD SR 2018-19)								
	Basic rate	27							
	6% AW	1.62							
	Sub Total	28.62							
	Road Works								
	W0727	1	200.00	4.00		800.00			
	W0735	1	140.00	5.00		700.00			
	W0749	1	125.00	5.00		625.00			
	W0753	1	130.00	5.50		715.00			
	W0474	1	250.00	4.80		1,200.00			
	W0478	1	250.00	4.60		1,150.00			
	W0734	1	255.00	4.20		1,071.00			
	W0738	1	125.00	4.00		500.00			
	W0404/I0243								
	Ch 0 - 235	1	235.00	1.50		352.50			
	Ch 235 - 400	1	165.00	3.00		495.00			
	Ch 400 - 490	1	90.00	3.00		270.00			
	Ch 490 - 865	1	375.00	6.30		2,362.50			
	Manasa Residency Road	1	95.00	1.20		114.00			
	W0494	1	95.00	5.50		522.50			
	W0761	1	40.00	4.80		192.00			
	W0785	1	100.00	4.00		400.00			
	W0791	1	70.00	5.00		350.00			
	W0797	1	90.00	4.00		360.00			
	W0737	1	105.00	5.50		577.50			
	W0763	1	35.00	4.90		171.50			
	W0769	1	35.00	4.80		168.00			
	W0773	1	100.00	5.50		550.00			
	W0767	1	60.00	3.60		216.00			
	Amarjyothinagar								
	W0744 - 8th A Cr	1	80.00	5.50		440.00			
	W1205 - 7th A Cr	1	85.00	4.80		408.00			
	W1215 - 6th A Cr	1	100.00	4.70		470.00			
	W1219 - 5th A Cr	1	55.00	3.90		214.50			
	W1223 - 4th A Cr	1	55.00	5.50		302.50			
	W1229 - 3rd A Cr	1	55.00	5.50		302.50			
	W1233 - 2nd A Cr	1	55.00	5.50		302.50			
	W1235 - 1st A Cr	1	55.00	5.50		302.50			
	W0768	1	120.00	5.00		600.00			
	W0772	1	115.00	4.50		517.50			
	W0776	1	120.00	4.80		576.00			
	W0780	1	130.00	4.00		520.00			
	W0782	1	120.00	4.50		540.00			
	W1183	1	40.00	4.80		192.00			
	W1185	1	30.00	4.30		129.00			
	W0742	1	175.00	4.80		840.00			
	Cross Rd-1 (ATZ Splender Apt	1	240.00	5.50		1,320.00			
	W1201	1	35.00	4.40		154.00			
	W1197	1	30.00	4.30		129.00			
	W1193	1	35.00	4.30		150.50			
	W0755	1	125.00	5.00		625.00			
	Cross Rd-A	2	255.00	1.20		612.00			
	Cross Rd-B	2	235.00	1.20		564.00			
	Cross Rd-C	2	310.00	1.20		744.00			
	Cross Rd-D	2	265.00	1.20		636.00			
	Cross Rd-E	2	295.00	1.20		708.00			

	Cross Rd-F								
	Cross Rd-G	2	280.00	1.20		672.00			
	1st Cross Rd	2	265.00	1.20		636.00			
	2nd Cross Rd	2	165.00	1.20		396.00			
	3rd Cross Rd	2	155.00	1.20		372.00			
	4th Cross Rd	2	150.00	1.20		360.00			
	5th Cross Rd	2	145.00	1.20		348.00			
	6th Cross Rd	2	180.00	1.20		432.00			
		2	128.00	1.20		307.20			
				Sub Total		29,685.20			
						29,685.20	Sqm	28.62	849,590.42
16	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	5.00							
	Area Weightage 6%	0.30							
	Final Rate	5.30							
	Road Works								
	W0404/I0243								
	Ch 0 - 235	1	235.00	9.40		2,209.00			
	Ch 235 - 400	1	165.00	7.00		1,155.00			
	Ch 400 - 490	1	90.00	7.60		684.00			
	Manasa Residency Road	1	95.00	7.80		741.00			
	Cross Rd-A	1	255.00	5.50		1,402.50			
	Cross Rd-B	1	235.00	5.50		1,292.50			
	Cross Rd-C	1	310.00	5.50		1,705.00			
	Cross Rd-D	1	265.00	5.50		1,457.50			
	Cross Rd-E	1	295.00	5.50		1,622.50			
	Cross Rd-F	1	280.00	5.50		1,540.00			
	Cross Rd-G	1	265.00	5.50		1,457.50			
	1st Cross Rd	1	165.00	5.50		907.50			
	2nd Cross Rd	1	155.00	5.50		852.50			
	3rd Cross Rd	1	150.00	5.50		825.00			
	4th Cross Rd	1	145.00	5.50		797.50			
	5th Cross Rd	1	180.00	5.50		990.00			
	6th Cross Rd	1	128.00	5.50		704.00			
	deduct prime coat					-8,018.70			
						12,324.30	Sqm	5.3	65,318.79
17	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.158 I.No.21.7 of PW,P&IWTD SR of 2018-19)								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Final Rate	12.72							
	Tack Coat For DBM								
	DBM								
	Road Works								
	W0404/I0243								
	Ch 0 - 235	1	235.00	9.40		2,209.00			
	Ch 235 - 400	1	165.00	7.00		1,155.00			
	Ch 400 - 490	1	90.00	7.60		684.00			
	Ch 490 - 865	1	375.00	6.30		2,362.50			
	Manasa Residency Road	1	95.00	1.20		114.00			
	Cross Rd-A	2	255.00	1.20		612.00			
	Cross Rd-B	2	235.00	1.20		564.00			
	Cross Rd-C	2	310.00	1.20		744.00			
	Cross Rd-D	2	265.00	1.20		636.00			
	Cross Rd-E	2	295.00	1.20		708.00			
	Cross Rd-F	2	280.00	1.20		672.00			
	Cross Rd-G	2	265.00	1.20		636.00			
	1st Cross Rd	2	165.00	1.20		396.00			
	2nd Cross Rd	2	155.00	1.20		372.00			
	3rd Cross Rd	2	150.00	1.20		360.00			
	4th Cross Rd	2	145.00	1.20		348.00			

	5th Cross Rd	2	180.00	1.20		432.00			
	6th Cross Rd	2	128.00	1.20		307.20			
	Tack Coat For BC								
	Road Works								
	W0727								
	W0735	1	200.00	4.00		800.00			
	W0749	1	140.00	5.00		700.00			
	W0753	1	125.00	5.00		625.00			
	W0474	1	130.00	5.50		715.00			
	W0478	1	250.00	4.80		1,200.00			
	W0734	1	250.00	4.60		1,150.00			
	W0738	1	255.00	4.20		1,071.00			
	W0404/I0243	1	125.00	4.00		500.00			
	Ch 0 - 235								
	Ch 235 - 400	1	235.00	9.40		2,209.00			
	Ch 400 - 490	1	165.00	7.00		1,155.00			
	Ch 490 - 865	1	90.00	7.60		684.00			
	Manasa Residency Road	1	375.00	6.30		2,362.50			
	W0494	1	95.00	7.80		741.00			
	W0761	1	95.00	5.50		522.50			
	W0785	1	40.00	4.80		192.00			
	W0791	1	100.00	4.00		400.00			
	W0797	1	70.00	5.00		350.00			
	W0737	1	90.00	4.00		360.00			
	W0763	1	105.00	5.50		577.50			
	W0769	1	35.00	4.90		171.50			
	W0773	1	35.00	4.80		168.00			
	W0767	1	100.00	5.50		550.00			
	Amarjyothinagar	1	60.00	3.60		216.00			
	W0744 - 8th A Cr								
	W1205 - 7th A Cr	1	80.00	5.50		440.00			
	W1215 - 6th A Cr	1	85.00	4.80		408.00			
	W1219 - 5th A Cr	1	100.00	4.70		470.00			
	W1223 - 4th A Cr	1	55.00	3.90		214.50			
	W1229 - 3rd A Cr	1	55.00	5.50		302.50			
	W1233 - 2nd A Cr	1	55.00	5.50		302.50			
	W1235 - 1st A Cr	1	55.00	5.50		302.50			
	W0768	1	55.00	5.50		302.50			
	W0772	1	120.00	5.00		600.00			
	W0776	1	115.00	4.50		517.50			
	W0780	1	120.00	4.80		576.00			
	W0782	1	130.00	4.00		520.00			
	W1183	1	120.00	4.50		540.00			
	W1185	1	40.00	4.80		192.00			
	W0742	1	30.00	4.30		129.00			
	Cross Rd-1 (ATZ Splender	1	175.00	4.80		840.00			
	W1201	1	240.00	5.50		1,320.00			
	W1197	1	35.00	4.40		154.00			
	W1193	1	30.00	4.30		129.00			
	W0755	1	35.00	4.30		150.50			
		1	125.00	5.00		625.00			
	Cross Rd-A	1	255.00	5.50		1,402.50			
	Cross Rd-B	1	235.00	5.50		1,292.50			
	Cross Rd-C	1	310.00	5.50		1,705.00			
	Cross Rd-D	1	265.00	5.50		1,457.50			
	Cross Rd-E	1	295.00	5.50		1,622.50			
	Cross Rd-F	1	280.00	5.50		1,540.00			
	Cross Rd-G	1	265.00	5.50		1,457.50			
	1st Cross Rd	1	165.00	5.50		907.50			
	2nd Cross Rd	1	155.00	5.50		852.50			
	3rd Cross Rd	1	150.00	5.50		825.00			
	4th Cross Rd	1	145.00	5.50		797.50			
	5th Cross Rd	1	180.00	5.50		990.00			
	6th Cross Rd	1	128.00	5.50		704.00			
						55,321.20	**Sqm**	**12.72**	**703,685.66**

18	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Basic rate	6224.00							
	6% AW	373.44							
	Sub Total	6597.44							
	DBM								
	Road Works								
	W0404/I0243								
	Ch 0 - 235	1	235.00	9.40	0.05	110.45			
	Ch 235 - 400	1	165.00	7.00	0.05	57.75			
	Ch 400 - 490	1	90.00	7.60	0.05	34.20			
	Ch 490 - 865	1	375.00	6.30	0.05	118.13			
	Manasa Residency Road	1	95.00	1.20	0.05	5.70			
	Cross Rd-A	2	255.00	1.20	0.05	30.60			
	Cross Rd-B	2	235.00	1.20	0.05	28.20			
	Cross Rd-C	2	310.00	1.20	0.05	37.20			
	Cross Rd-D	2	265.00	1.20	0.05	31.80			
	Cross Rd-E	2	295.00	1.20	0.05	35.40			
	Cross Rd-F	2	280.00	1.20	0.05	33.60			
	Cross Rd-G	2	265.00	1.20	0.05	31.80			
	1st Cross Rd	2	165.00	1.20	0.05	19.80			
	2nd Cross Rd	2	155.00	1.20	0.05	18.60			
	3rd Cross Rd	2	150.00	1.20	0.05	18.00			
	4th Cross Rd	2	145.00	1.20	0.05	17.40			
	5th Cross Rd	2	180.00	1.20	0.05	21.60			
	6th Cross Rd	2	128.00	1.20	0.05	15.36			
						665.59	**Cum**	**6597.44**	**4,391,157.10**
19	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PW,P&IWTD SR 2018-19) As per Issue rate dated: 03/01/2020								
	Basic rate (Issue Rate)	7315.00							
	6% AW	438.90							
	Sub Total	7753.90							
	Road Works								
	W0727	1	200.00	4.00	0.04	32.00			
	W0735	1	140.00	5.00	0.04	28.00			
	W0749	1	125.00	5.00	0.04	25.00			
	W0753	1	130.00	5.50	0.04	28.60			
	W0474	1	250.00	4.80	0.04	48.00			
	W0478	1	250.00	4.60	0.04	46.00			
	W0734	1	255.00	4.20	0.04	42.84			
	W0738	1	125.00	4.00	0.04	20.00			
	W0404/I0243								
	Ch 0 - 235	1	235.00	9.40	0.04	88.36			
	Ch 235 - 400	1	165.00	7.00	0.04	46.20			
	Ch 400 - 490	1	90.00	7.60	0.04	27.36			
	Ch 490 - 865	1	375.00	6.30	0.04	94.50			
	Manasa Residency Road	1	95.00	7.80	0.04	29.64			
	W0494	1	95.00	5.50	0.04	20.90			
	W0761	1	40.00	4.80	0.04	7.68			
	W0785	1	100.00	4.00	0.04	16.00			
	W0791	1	70.00	5.00	0.04	14.00			
	W0797	1	90.00	4.00	0.04	14.40			
	W0737	1	105.00	5.50	0.04	23.10			
	W0763	1	35.00	4.90	0.04	6.86			

	W0769	1	35.00	4.80	0.04	6.72			
	W0773	1	100.00	5.50	0.04	22.00			
	W0767	1	60.00	3.60	0.04	8.64			
	Amarjyothinagar								
	W0744 - 8th A Cr	1	80.00	5.50	0.04	17.60			
	W1205 - 7th A Cr	1	85.00	4.80	0.04	16.32			
	W1215 - 6th A Cr	1	100.00	4.70	0.04	18.80			
	W1219 - 5th A Cr	1	55.00	3.90	0.04	8.58			
	W1223 - 4th A Cr	1	55.00	5.50	0.04	12.10			
	W1229 - 3rd A Cr	1	55.00	5.50	0.04	12.10			
	W1233 - 2nd A Cr	1	55.00	5.50	0.04	12.10			
	W1235 - 1st A Cr	1	55.00	5.50	0.04	12.10			
	W0768	1	120.00	5.00	0.04	24.00			
	W0772	1	115.00	4.50	0.04	20.70			
	W0776	1	120.00	4.80	0.04	23.04			
	W0780	1	130.00	4.00	0.04	20.80			
	W0782	1	120.00	4.50	0.04	21.60			
	W1183	1	40.00	4.80	0.04	7.68			
	W1185	1	30.00	4.30	0.04	5.16			
	W0742	1	175.00	4.80	0.04	33.60			
	Cross Rd-1 (ATZ Splender	1	240.00	5.50	0.04	52.80			
	W1201	1	35.00	4.40	0.04	6.16			
	W1197	1	30.00	4.30	0.04	5.16			
	W1193	1	35.00	4.30	0.04	6.02			
	W0755	1	125.00	5.00	0.04	25.00			
	Cross Rd-A	1	255.00	5.50	0.04	56.10			
	Cross Rd-B	1	235.00	5.50	0.04	51.70			
	Cross Rd-C	1	310.00	5.50	0.04	68.20			
	Cross Rd-D	1	265.00	5.50	0.04	58.30			
	Cross Rd-E	1	295.00	5.50	0.04	64.90			
	Cross Rd-F	1	280.00	5.50	0.04	61.60			
	Cross Rd-G	1	265.00	5.50	0.04	58.30			
	1st Cross Rd	1	165.00	5.50	0.04	36.30			
	2nd Cross Rd	1	155.00	5.50	0.04	34.10			
	3rd Cross Rd	1	150.00	5.50	0.04	33.00			
	4th Cross Rd	1	145.00	5.50	0.04	31.90			
	5th Cross Rd	1	180.00	5.50	0.04	39.60			
	6th Cross Rd	1	128.00	5.50	0.04	28.16			
						1,680.38	**Cum**	**7753.9**	**13,029,498.48**
20	**KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	6% AW	25.74							
	Sub Total	454.74							
	Edge Line	2	7,848.00	0.10		1,569.60			
	Centre Line	0.50	5,018.00	0.10		250.90			
						1,820.50	**Sqm**	**454.74**	**827,854.17**
21	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. . MORTH V Revision Specification No. 601, IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver .((P.No.174, I.No.22.1.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	3665.00							
	6% AW	219.90							
	Sub Total	3884.90							

	W0723								
	W0729	1	125.00	4.20	0.15	78.75			
	W0743	1	145.00	3.20	0.15	69.60			
	W0779	1	135.00	4.80	0.15	97.20			
		1	95.00	3.00	0.15	42.75			
						288.30	cum	3884.9	1,120,016.67
22	Constructing un-reinforced, **plain cement concrete for pavements using Grade concrete M30** with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-182,I No-22.6.1)								
	Basic rate	4916.00							
	6% AW	294.96							
	Sub Total	5210.96							
	W0723	1	125.00	4.20	0.15	78.75			
	W0729	1	145.00	3.20	0.15	69.60			
	W0743	1	135.00	4.80	0.15	97.20			
	W0779	1	95.00	3.00	0.15	42.75			
						288.30	Cum	5210.96	1,502,319.77
								Total Construction Cost	41,931,299.54
23								12% GST to Construction Cost	5,031,755.94
24								5% Tender Premium	2,096,564.98
25								Cost towards Preparation of DPR LS	469,631.00
26								Cost towards PMC / Third Party inspection LS	469,631.00
								Sub Total	49,998,882.46
27								Miscellaneous and rounding off	1,117.54
								TOTAL	50,000,000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Tejus Consultants

Assistant Engineer
BBMP Bangalore

Asst. Executive Engineer,
BBMP Bangalore

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
BBMP Bangalore
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560092.

Bruhat Bangalore Mahanagara Palike

Byatarayanapura Division

Name of Work: Comprehensive Development of roads and drains in Ward No 07, Kodigehalli Sub Division

Est Cost: =300.00Lakhs

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 .I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80								
	Desilt								
	Amruth Nagar C Sector								
	W0488 - 3rd Cross	2	290.00	0.60	0.50	174.00			
	W0603	2	135.00	0.60	0.50	81.00			
	W0618 - 4th Cross	2	230.00	0.60	0.50	138.00			
	W0620 - 5th Cross	2	150.00	0.60	0.50	90.00			
	W0486 - 2nd Cross	2	75.00	0.60	0.50	45.00			
	W0611 - 6th Cross	2	65.00	0.60	0.50	39.00			
	W0623 - 7th Cross	2	65.00	0.60	0.50	39.00			
	W0629 - 8th Cross	2	70.00	0.60	0.50	42.00			
	Padma tent area								
	1st Cross	2	250.00	0.60	0.50	150.00			
	2nd Cross	2	150.00	0.60	0.50	90.00			
	3rd Cross	2	230.00	0.60	0.50	138.00			
	4th Cross	2	70.00	0.60	0.50	42.00			
	5th Cross	2	60.00	0.60	0.50	36.00			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	2	90.00	0.60	0.50	54.00			
	2nd Cross Road	2	100.00	0.60	0.50	60.00			
	3rd Cross Road	2	100.00	0.60	0.50	60.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	2	130.00	0.60	0.50	78.00			
	1st Cross Road	2	30.00	0.60	0.50	18.00			
	2nd Cross Road	2	20.00	0.60	0.50	12.00			
	3rd Cross Road	2	20.00	0.60	0.50	12.00			
	Cross Road	2	40.00	0.60	0.50	24.00			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	2	90.00	0.60	0.50	54.00			
	2nd Cross Road	2	100.00	0.60	0.50	60.00			
	3rd Cross Road	2	110.00	0.60	0.50	66.00			
	4th Cross Road	2	110.00	0.60	0.50	66.00			
	5th Cross Road	2	120.00	0.60	0.50	72.00			
	Cross Road	2	100.00	0.60	0.50	60.00			
	Cross Road	2	90.00	0.60	0.50	54.00			
	Talakaveri Layout								
	2nd C Cross Road	2	130.00	0.60	0.50	78.00			
	2nd B Cross Road	2	120.00	0.60	0.50	72.00			
	2nd Main Road	2	150.00	0.60	0.50	90.00			
	Cross Road (Near Chandramouleshwara Temple)	2	65.00	0.60	0.50	39.00			
	60 Feet Road	2	270.00	0.60	0.50	162.00			
	1st Main Road	2	308.00	0.60	0.50	184.80			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	2	128.00	0.60	0.50	76.80			
	Cross Road	2	90.00	0.60	0.50	54.00			

	2nd A Cross Road ((Perpendiculer to 1st Main Road)	2	120.00	0.60	0.50	72.00			
	2nd B Cross Road (Perpendiculer to 1st Main Road)	2	40.00	0.60	0.50	24.00			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	2	20.00	0.60	0.50	12.00			
	2nd D Cross Road(Perpendiculer to 1st Main Road)	2	175.00	0.60	0.50	105.00			
	Cross Road (b/w 60 feet and 1st main Road)	2	50.00	0.60	0.50	30.00			
	Muniswame gowda layout								
	Main Road	2	300.00	0.60	0.50	180.00			
	1st Cross Road	2	170.00	0.60	0.50	102.00			
	2nd Cross Road	2	175.00	0.60	0.50	105.00			
	3rd Cross Road	2	190.00	0.60	0.50	114.00			
	4th Cross Road	2	180.00	0.60	0.50	108.00			
	Cross Road A	2	220.00	0.60	0.50	132.00			
	Cross Road B	2	200.00	0.60	0.50	120.00			
	Cross Road C	2	220.00	0.60	0.50	132.00			
	Cross Road D	2	230.00	0.60	0.50	138.00			
	Cross Road E	2	195.00	0.60	0.50	117.00			
	Cross Road F	2	210.00	0.60	0.50	126.00			
	Culverts								
	Cross Culverts	2	6.00	0.80	0.80	7.68			
	RCC Culvert								
		2	6.00	1.40	1.15	19.32			
						4,254.60	**Cum**	**211.79**	**901081.73**
	Basic rate	**130.00**							
	5Km lead & Lift= 57+(2*1.28*5)	**69.80**							
	Sub Total	**199.80**							
	6% AW	**11.99**							
	Total	**211.79**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)								
	Desilt								
	Amruth Nagar C Sector								
	W0488 - 3rd Cross	2	290.00	1.35		783.00			
	W0603	2	135.00	1.35		364.50			
	W0618 - 4th Cross	2	230.00	1.35		621.00			
	W0620 - 5th Cross	2	150.00	1.35		405.00			
	W0486 - 2nd Cross	2	75.00	1.35		202.50			
	W0611 - 6th Cross	2	65.00	1.35		175.50			
	W0623 - 7th Cross	2	65.00	1.35		175.50			
	W0629 - 8th Cross	2	70.00	1.35		189.00			
	Padma tent area								
	1st Cross	2	250.00	1.35		675.00			
	2nd Cross	2	150.00	1.35		405.00			
	3rd Cross	2	230.00	1.35		621.00			
	4th Cross	2	70.00	1.35		189.00			
	5th Cross	2	60.00	1.35		162.00			
	Shabarinagara/ Byatarayanpura								

	1st Cross Road	2	90.00	1.35		243.00			
	2nd Cross Road	2	100.00	1.35		270.00			
	3rd Cross Road	2	100.00	1.35		270.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	2	130.00	1.35		351.00			
	1st Cross Road	2	30.00	1.35		81.00			
	2nd Cross Road	2	20.00	1.35		54.00			
	3rd Cross Road	2	20.00	1.35		54.00			
	Cross Road	2	40.00	1.35		108.00			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	2	90.00	1.35		243.00			
	2nd Cross Road	2	100.00	1.35		270.00			
	3rd Cross Road	2	110.00	1.35		297.00			
	4th Cross Road	2	110.00	1.35		297.00			
	5th Cross Road	2	120.00	1.35		324.00			
	Cross Road	2	100.00	1.35		270.00			
	Cross Road	2	90.00	1.35		243.00			
	Talakaveri Layout								
	2nd C Cross Road	2	130.00	1.35		351.00			
	2nd B Cross Road	2	120.00	1.35		324.00			
	2nd Main Road	2	150.00	1.35		405.00			
	Cross Road (Near Chandramouleshwara Temple)	2	65.00	1.35		175.50			
	60 Feet Road	2	270.00	1.35		729.00			
	1st Main Road	2	308.00	1.35		831.60			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	2	128.00	1.35		345.60			
	Cross Road	2	90.00	1.35		243.00			
	2nd A Cross Road ((Perpendiculer to 1st Main Road)	2	120.00	1.35		324.00			
	2nd B Cross Road (Perpendiculer to 1st Main Road)	2	40.00	1.35		108.00			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	2	20.00	1.35		54.00			
	2nd D Cross Road(Perpendiculer to 1st Main Road)	2	175.00	1.35		472.50			
	Cross Road (b/w 60 feet and 1st main Road)	2	50.00	1.35		135.00			
	Muniswame gowda layout								
	Main Road	2	300.00	1.35		810.00			
	1st Cross Road	2	170.00	1.35		459.00			
	2nd Cross Road	2	175.00	1.35		472.50			
	3rd Cross Road	2	190.00	1.35		513.00			
	4th Cross Road	2	180.00	1.35		486.00			
	Cross Road A	2	220.00	1.35		594.00			
	Cross Road B	2	200.00	1.35		540.00			
	Cross Road C	2	220.00	1.35		594.00			
	Cross Road D	2	230.00	1.35		621.00			
	Cross Road E	2	195.00	1.35		526.50			
	Cross Road F	2	210.00	1.35		567.00			
						19,024.20			

	Consider 15%					2,853.63			
	deduct damaged / missing slab 15%					-428.04			
						2,425.59	Sqm	111.30	269967.67
	Basic rate	105.00							
	6% AW	6.30							
	Total	111.30							
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	Add damaged / missing slab 15%					428.04			
						428.04	Sqm	742.00	317609.02
	Basic rate	700.00							
	6% AW	42.00							
	Sub Total	742.00							
4	KSRRB M2900-1 Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408 (P.No.254, I.No.34.1 of PW,P&IWTD S.R 2018-19)								
	RCC Culvert								
		2	6.00	1.40	0.15	2.52			
		2	140.00	0.30	0.15	12.60			
						15.12	Cum	4479.56	67,730.95
	Basic rate	4,226.00							
	6% AW	253.56							
	Sub Total	4,479.56							
5	KSRB 5-11 : Providing and constructing load bearing wall with having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials labour charegs, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 .-do- solid concrete blocks of size 400x150x200 mm (Page No.27. litem no.5.27.2 of KPWD S.R Bangalore Circle (2018-19)								
	Flagging Course								
		2	140.00		0.20	56.00			
						56.00	Sqm	1010.18	56,570.08
	Basic rate	953.00							
	6% AW	57.18							
	Sub Total	1,010.18							
6	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(P.No 255, I.No.34.11 of PW,P&IWTD S.R 2018-19)								
	Flagging Course								
		2	140.00	0.15	0.10	4.24			
						4.24	Cum	5599.98	23,755.12
	Basic rate	5,283.00							

	6% AW	316.98							
	Sub Total	5,599.98							
7	34.17 Providing and laying in position plain/Reinforced cement cement concrete M20 for sub structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. (P.No.257, I.No.34.17 of PW, P&IWTD SR 2018-19)								
	Raft								
	RCC Culvert								
		2	6.00	1.20	0.20	2.88			
	Side Wall								
	RCC Culvert								
		4	6.00	0.20	0.80	3.84			
						6.72	Cum	5277.74	35,466.41
	Basic rate	4,979.00							
	6% AW	298.74							
	Sub Total	5,277.74							
8	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200.**TMT Bars Fe 500** (P.No.229, I.No.28.8.2 of PW, P&IWTD SR 2018-19)								
	Consider 80kg/Cum for Culvert	1	6.72	80.00		0.54			
						0.54	Tonne	72326.98	39,056.57
	Basic rate	68,233.00							
	6% AW	4,093.98							
	Sub Total	72,326.98							
9	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No.272, I.No.37.66 of PW,P&IWTD SR 2018-19)								
	Precast Covering Slab								
	Drain Covering Slab	1	140.00			140.00			
						140.00	m	1145.86	160420.40
	A.Basic rate	1,081.00							
	B.Area Weightage 6%	64.86							
	Total	1,145.86							
10	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	RCC Culvert	2	6.00	1.20		14.40			

						14.40	Sqm	5418.00	78,019.20
	Data rate	5,418.00							
11	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)								
	Road Works								
	Padma tent area								
	1st Cross	2	10.30	1.00	0.30	6.18			
	2nd Cross	2	20.00	1.00	0.30	12.00			
	3rd Cross	2	15.00	0.60	0.30	5.40			
	4th Cross	1	25.00	0.60	0.30	4.50			
	5th Cross	1	30.00	2.80	0.30	25.20			
	Amrutha Nagara C Sector								
	Bad Reaches	5	2.50	3.00	0.30	11.25			
		15	2.00	2.50	0.30	22.50			
		18	1.50	1.50	0.30	12.15			
		10	2.00	1.60	0.30	9.60			
		5	2.30	1.80	0.30	6.21			
		6	1.80	1.50	0.30	4.86			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	7	2.50	2.00	0.30	10.50			
	2nd Cross Road	11	2.00	2.00	0.30	13.20			
	3rd Cross Road	15	2.00	1.60	0.30	14.40			
	Byregowda Layout / Byatarayanpura								
	1st main Road	10	2.00	2.00	0.30	12.00			
	1st Cross Road	5	2.50	2.00	0.30	7.50			
	2nd Cross Road	4	1.60	1.70	0.30	3.26			
	3rd Cross Road	3	1.50	2.00	0.30	2.70			
	Cross Road	8	2.00	1.35	0.30	6.48			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	10	2.00	1.50	0.30	9.00			
	2nd Cross Road	9	2.50	2.00	0.30	13.50			
	3rd Cross Road	10	1.80	2.10	0.30	11.34			
	4th Cross Road	12	2.50	1.80	0.30	16.20			
	5th Cross Road	12	2.50	1.80	0.30	16.20			
	Cross Road	5	2.50	1.80	0.30	6.75			
	Cross Road	8	2.00	2.00	0.30	9.60			
	Kashinagar (UGD CUT PORTION)	1	180.00	1.00	0.30	54.00			
	Cross Road	10	2.50	1.50	0.30	11.25			
		11	2.00	1.40	0.30	9.24			
	Cross Road	6	2.00	1.50	0.30	5.40			
		15	2.00	1.80	0.30	16.20			
		10	2.00	1.60	0.30	9.60			
	Talakaveri Layout								
	2nd C Cross Road	8	2.00	2.50	0.30	12.00			
		12	2.00	2.50	0.30	18.00			
	2nd B Cross Road	8	2.00	1.50	0.30	7.20			
		6	1.65	1.80	0.30	5.35			
		10	2.00	1.20	0.30	7.20			

	2nd Main Road	4	2.00	1.50	0.30	3.60			
	UGD Cut	1	150.00	1.00	0.30	45.00			
	Cross Road (Near Chandramouleshwara Temple)	6	1.50	2.00	0.30	5.40			
	60 Feet Road	5	1.50	2.00	0.30	4.50			
		4	1.20	1.80	0.30	2.59			
		6	1.35	2.00	0.30	4.86			
		3	1.60	1.60	0.30	2.30			
		2	2.00	2.00	0.30	2.40			
		1	3.00	2.50	0.30	2.25			
	1st Main Road	5	2.00	2.00	0.30	6.00			
		2	1.50	1.60	0.30	1.44			
		5	1.50	1.40	0.30	3.15			
		6	1.00	1.20	0.30	2.16			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	5	2.00	1.50	0.30	4.50			
		6	1.50	1.40	0.30	3.78			
		5	1.60	1.35	0.30	3.24			
		8	1.50	1.60	0.30	5.76			
		1	2.00	1.70	0.30	1.02			
	Cross Road	3	2.00	2.00	0.30	3.60			
		4	1.50	1.50	0.30	2.70			
		5	1.00	1.00	0.30	1.50			
	2nd A Cross Road ((Perpendiculer to 1st Main Road)	5	1.20	2.00	0.30	3.60			
		4	1.60	1.50	0.30	2.88			
		3	1.50	1.60	0.30	2.16			
		2	2.10	1.50	0.30	1.89			
		1	2.00	1.40	0.30	0.84			
	2nd B Cross Road (Perpendiculer to 1st Main Road)	2	40.00	0.60	0.30	14.40			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	2	20.00	0.60	0.30	7.20			
	2nd D Cross Road(Perpendiculer to 1st Main Road)	5	2.00	1.60	0.30	4.80			
		4	2.00	1.40	0.30	3.36			
		3	2.10	1.50	0.30	2.84			
		2	1.50	2.10	0.30	1.89			
		1	1.80	1.60	0.30	0.86			
	Cross Road (b/w 60 feet and 1st main Road)	2	50.00	0.50	0.30	15.00			
	Muniswame gowda layout								
	Main Road	2	2.00	1.50	0.30	1.80			
		5	1.50	1.50	0.30	3.38			
		8	1.50	1.50	0.30	5.40			
	1st Cross Road	2	2.00	1.50	0.30	1.80			

		5	1.50	1.50	0.30	3.38			
		6	1.30	1.50	0.30	3.51			
	2nd Cross Road								
		5	1.20	1.50	0.30	2.70			
		4	2.00	1.50	0.30	3.60			
	3rd Cross Road								
		8	2.00	1.50	0.30	7.20			
		5	2.10	1.50	0.30	4.73			
	4th Cross Road								
		6	1.70	1.50	0.30	4.59			
		5	1.65	1.50	0.30	3.71			
	Cross Road A	2	220.00	0.70	0.30	92.40			
	Cross Road B	2	200.00	0.70	0.30	84.00			
	Cross Road C	2	220.00	0.70	0.30	92.40			
	Cross Road D	2	230.00	0.70	0.30	96.60			
	Cross Road E	2	195.00	0.70	0.30	81.90			
	Cross Road F	2	210.00	0.70	0.30	88.20			
	Bhadrappa Layout & Amruthahalli Surrounding								
	Cross Road 1	1	150.00	4.00	0.30	180.00			
	Cross Road 2	1	180.00	4.20	0.30	226.80			
	Cross Road 3	1	400.00	4.00	0.30	480.00			
	Cross Road 4	1	150.00	4.00	0.30	180.00			
	Cross Road 5	1	200.00	4.00	0.30	240.00			
						2,489.48	**Cum**	**54.31**	**135203.66**
	Basic rate	**41.00**							
	5Km lead & Lift= (2*1.28*4)	**10.24**							
	Sub Total	**51.24**							
	6% AW	**3.07**							
	Total	**54.31**							
12	KSRRB M400-17 Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Road Works								
	Padma tent area								
	1st Cross	2	10.30	1.00	0.25	5.15			
	2nd Cross	2	20.00	1.00	0.25	10.00			
	3rd Cross	2	15.00	0.60	0.25	4.50			
	4th Cross	1	25.00	0.60	0.25	3.75			
	5th Cross	1	30.00	2.80	0.25	21.00			
	Amrutha Nagara C Sector								
	Bad Reaches	5	2.50	3.00	0.25	9.38			
		15	2.00	2.50	0.25	18.75			
		18	1.50	1.50	0.25	10.13			
		10	2.00	1.60	0.25	8.00			
		5	2.30	1.80	0.25	5.18			
		6	1.80	1.50	0.25	4.05			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	7	2.50	2.00	0.25	8.75			
	2nd Cross Road	11	2.00	2.00	0.25	11.00			

3rd Cross Road	15	2.00	1.60	0.25	12.00			
Byregowda Layout / Byatarayanpura								
1st main Road	10	2.00	2.00	0.25	10.00			
1st Cross Road	5	2.50	2.00	0.25	6.25			
2nd Cross Road	4	1.60	1.70	0.25	2.72			
3rd Cross Road	3	1.50	2.00	0.25	2.25			
Cross Road	8	2.00	1.35	0.25	5.40			
Vinayaka Layout 2nd Stage								
1st Cross Road	10	2.00	1.50	0.25	7.50			
2nd Cross Road	9	2.50	2.00	0.25	11.25			
3rd Cross Road	10	1.80	2.10	0.25	9.45			
4th Cross Road	12	2.50	1.80	0.25	13.50			
5th Cross Road	12	2.50	1.80	0.25	13.50			
Cross Road	5	2.50	1.80	0.25	5.63			
Cross Road	8	2.00	2.00	0.25	8.00			
				0.25				
Kashinagar (UGD CUT PORTION)	1	180.00	1.00	0.25	45.00			
Cross Road	10	2.50	1.50	0.25	9.38			
	11	2.00	1.40	0.25	7.70			
Cross Road	6	2.00	1.50	0.25	4.50			
	15	2.00	1.80	0.25	13.50			
	10	2.00	1.60	0.25	8.00			
Talakaveri Layout								
2nd C Cross Road	8	2.00	2.50	0.25	10.00			
	12	2.00	2.50	0.25	15.00			
2nd B Cross Road	8	2.00	1.50	0.25	6.00			
	6	1.65	1.80	0.25	4.46			
	10	2.00	1.20	0.25	6.00			
	0	0.00	0.00	0.25	0.00			
2nd Main Road	4	2.00	1.50	0.25	3.00			
UGD Cut	1	150.00	1.00	0.25	37.50			
Cross Road (Near Chandramouleshwara Temple)	6	1.50	2.00	0.25	4.50			
60 Feet Road	5	1.50	2.00	0.25	3.75			
	4	1.20	1.80	0.25	2.16			
	6	1.35	2.00	0.25	4.05			
	3	1.60	1.60	0.25	1.92			
	2	2.00	2.00	0.25	2.00			
	1	3.00	2.50	0.25	1.88			
1st Main Road	5	2.00	2.00	0.25	5.00			
	2	1.50	1.60	0.25	1.20			
	5	1.50	1.40	0.25	2.63			
	6	1.00	1.20	0.25	1.80			
2nd C Cross Road(Perpendiculer to 1st Main Road)	5	2.00	1.50	0.25	3.75			
	6	1.50	1.40	0.25	3.15			
	5	1.60	1.35	0.25	2.70			
	8	1.50	1.60	0.25	4.80			
	1	2.00	1.70	0.25	0.85			
Cross Road	3	2.00	2.00	0.25	3.00			
	4	1.50	1.50	0.25	2.25			

		5	1.00	1.00	0.25	1.25			
	2nd A Cross Road ((Perpendiculer to 1st Main Road)	5	1.20	2.00	0.25	3.00			
		4	1.60	1.50	0.25	2.40			
		3	1.50	1.60	0.25	1.80			
		2	2.10	1.50	0.25	1.58			
		1	2.00	1.40	0.25	0.70			
	2nd B Cross Road (Perpendiculer to 1st Main Road)	2	40.00	0.60	0.25	12.00			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	2	20.00	0.60	0.25	6.00			
	2nd D Cross Road(Perpendiculer to 1st Main Road)	5	2.00	1.60	0.25	4.00			
		4	2.00	1.40	0.25	2.80			
		3	2.10	1.50	0.25	2.36			
		2	1.50	2.10	0.25	1.58			
		1	1.80	1.60	0.25	0.72			
	Cross Road (b/w 60 feet and 1st main Road)	2	50.00	0.50	0.25	12.50			
	Muniswame gowda layout								
	Main Road	2	2.00	1.50	0.25	1.50			
		5	1.50	1.50	0.25	2.81			
		8	1.50	1.50	0.25	4.50			
	1st Cross Road	2	2.00	1.50	0.25	1.50			
		5	1.50	1.50	0.25	2.81			
		6	1.30	1.50	0.25	2.93			
	2nd Cross Road	5	1.20	1.50	0.25	2.25			
		4	2.00	1.50	0.25	3.00			
	3rd Cross Road	8	2.00	1.50	0.25	6.00			
		5	2.10	1.50	0.25	3.94			
	4th Cross Road	6	1.70	1.50	0.25	3.83			
		5	1.65	1.50	0.25	3.09			
	Cross Road A	2	220.00	0.70	0.25	77.00			
	Cross Road B	2	200.00	0.70	0.25	70.00			
	Cross Road C	2	220.00	0.70	0.25	77.00			
	Cross Road D	2	230.00	0.70	0.25	80.50			
	Cross Road E	2	195.00	0.70	0.25	68.25			
	Cross Road F	2	210.00	0.70	0.25	73.50			
						985.57	**Cum**	**2001.28**	**1972401.53**
	Basic rate	**1,888.00**							
	6% AW	**113.28**							
	Sub Total	**2,001.28**							

13	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PW,P&IWTD SR 2018-19)								
	Road Works								
	Padma tent area								
	1st Cross	2	10.30	1.00		20.60			
	2nd Cross	2	20.00	1.00		40.00			
	3rd Cross	2	15.00	0.60		18.00			
	4th Cross	1	25.00	0.60		15.00			
	5th Cross	1	30.00	2.80		84.00			
	Amrutha Nagara C Sector								
	Bad Reaches	5	2.50	3.00		37.50			
		15	2.00	2.50		75.00			
		18	1.50	1.50		40.50			
		10	2.00	1.60		32.00			
		5	2.30	1.80		20.70			
		6	1.80	1.50		16.20			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	7	2.50	2.00		35.00			
	2nd Cross Road	11	2.00	2.00		44.00			
	3rd Cross Road	15	2.00	1.60		48.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	10	2.00	2.00		40.00			
	1st Cross Road	5	2.50	2.00		25.00			
	2nd Cross Road	4	1.60	1.70		10.88			
	3rd Cross Road	3	1.50	2.00		9.00			
	Cross Road	8	2.00	1.35		21.60			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	10	2.00	1.50		30.00			
	2nd Cross Road	9	2.50	2.00		45.00			
	3rd Cross Road	10	1.80	2.10		37.80			
	4th Cross Road	12	2.50	1.80		54.00			
	5th Cross Road	12	2.50	1.80		54.00			
	Cross Road	5	2.50	1.80		22.50			
	Cross Road	8	2.00	2.00		32.00			
	Kashinagar (UGD CUT PORTION)	1	180.00	1.00		180.00			
	Cross Road	10	2.50	1.50		37.50			
		11	2.00	1.40		30.80			
	Cross Road	6	2.00	1.50		18.00			
		15	2.00	1.80		54.00			
		10	2.00	1.60		32.00			
	Talakaveri Layout								
	2nd C Cross Road	8	2.00	2.50		40.00			
		12	2.00	2.50		60.00			
	2nd B Cross Road	8	2.00	1.50		24.00			
		6	1.65	1.80		17.82			
		10	2.00	1.20		24.00			
		4	2.00	1.50		12.00			
	2nd Main Road	1	150.00	1.00		150.00			
	UGD Cut								

	Cross Road (Near Chandramouleshwara Temple)	6	1.50	2.00		18.00			
	60 Feet Road								
		5	1.50	2.00		15.00			
		4	1.20	1.80		8.64			
		6	1.35	2.00		16.20			
		3	1.60	1.60		7.68			
		2	2.00	2.00		8.00			
		1	3.00	2.50		7.50			
	1st Main Road								
		5	2.00	2.00		20.00			
		2	1.50	1.60		4.80			
		5	1.50	1.40		10.50			
		6	1.00	1.20		7.20			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	5	2.00	1.50		15.00			
		6	1.50	1.40		12.60			
		5	1.60	1.35		10.80			
		8	1.50	1.60		19.20			
		1	2.00	1.70		3.40			
	Cross Road	3	2.00	2.00		12.00			
		4	1.50	1.50		9.00			
		5	1.00	1.00		5.00			
	2nd A Cross Road ((Perpendiculer to 1st Main Road)	5	1.20	2.00		12.00			
		4	1.60	1.50		9.60			
		3	1.50	1.60		7.20			
		2	2.10	1.50		6.30			
		1	2.00	1.40		2.80			
	2nd B Cross Road (Perpendiculer to 1st Main Road)	2	40.00	0.60		48.00			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	2	20.00	0.60		24.00			
	2nd D Cross Road(Perpendiculer to 1st Main Road)	5	2.00	1.60		16.00			
		4	2.00	1.40		11.20			
		3	2.10	1.50		9.45			
		2	1.50	2.10		6.30			
		1	1.80	1.60		2.88			
	Cross Road (b/w 60 feet and 1st main Road)	2	50.00	0.50		50.00			
	Muniswame gowda layout								
	Main Road	2	2.00	1.50		6.00			
		5	1.50	1.50		11.25			
		8	1.50	1.50		18.00			
	1st Cross Road	2	2.00	1.50		6.00			
		5	1.50	1.50		11.25			
		6	1.30	1.50		11.70			

	2nd Cross Road								
		5	1.20	1.50		9.00			
		4	2.00	1.50		12.00			
	3rd Cross Road								
		8	2.00	1.50		24.00			
		5	2.10	1.50		15.75			
	4th Cross Road								
		6	1.70	1.50		15.30			
		5	1.65	1.50		12.38			
	Cross Road A	2	220.00	0.70		308.00			
	Cross Road B	2	200.00	0.70		280.00			
	Cross Road C	2	220.00	0.70		308.00			
	Cross Road D	2	230.00	0.70		322.00			
	Cross Road E	2	195.00	0.70		273.00			
	Cross Road F	2	210.00	0.70		294.00			
	Basic rate	**27.00**				**3,942.28**	**Sqm**	**28.62**	**112827.91**
	6% AW	**1.62**							
	Sub Total	**28.62**							
14	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)								
	Amruth Nagar C Sector								
	W0488 - 3rd Cross	1	290.00	5.50		1,595.00			
	W0603	1	135.00	6.50		877.50			
	W0618 - 4th Cross	1	230.00	6.50		1,495.00			
	W0620 - 5th Cross	1	150.00	5.50		825.00			
	W0486 - 2nd Cross	1	75.00	5.20		390.00			
	W0611 - 6th Cross	1	65.00	4.80		312.00			
	W0623 - 7th Cross	1	65.00	4.60		299.00			
	W0629 - 8th Cross	1	70.00	4.70		329.00			
	Padma tent area								
	1st Cross	1	247.00	5.10		1,259.70			
	2nd Cross	1	150.00	5.20		780.00			
	3rd Cross	1	226.00	5.10		1,152.60			
	4th Cross	1	70.00	5.00		350.00			
	5th Cross	1	60.00	5.00		300.00			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	1	90.00	4.50		405.00			
	2nd Cross Road	1	100.00	4.50		450.00			
	3rd Cross Road	1	100.00	4.50		450.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	1	130.00	5.50		715.00			
	1st Cross Road	1	30.00	3.50		105.00			
	2nd Cross Road	1	20.00	3.50		70.00			
	3rd Cross Road	1	20.00	3.50		70.00			
	Cross Road	1	40.00	4.00		160.00			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	1	95.00	4.00		380.00			
	2nd Cross Road	1	100.00	4.50		450.00			
	3rd Cross Road	1	110.00	4.20		462.00			
	4th Cross Road	1	110.00	5.00		550.00			
	5th Cross Road	1	120.00	4.00		480.00			
	Cross Road	1	105.00	4.00		420.00			
	Cross Road	1	85.00	4.00		340.00			

	Cross Road A	1	160.00	5.50		880.00			
	Cross Road B	1	180.00	5.50		990.00			
	Cross Road C	1	95.00	5.50		522.50			
	Talakaveri Layout								
	2nd C Cross Road	1	130.00	7.50		975.00			
	2nd B Cross Road	1	120.00	6.50		780.00			
	2nd Main Road	1	150.00	7.50		1,125.00			
	Cross Road (Near Chandramouleshwara Temple)	1	65.00	5.00		325.00			
	60 Feet Road	1	270.00	10.00		2,700.00			
	1st Main Road	1	308.00	8.00		2,464.00			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	1	128.00	7.50		960.00			
	Cross Road	1	90.00	4.50		405.00			
	2nd A Cross Road ((Perpendiculer to 1st Main Road)	1	120.00	5.00		600.00			
	2nd B Cross Road (Perpendiculer to 1st Main Road)	1	40.00	5.50		220.00			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	1	20.00	4.50		90.00			
	2nd D Cross Road(Perpendiculer to 1st Main Road)	1	175.00	8.00		1,400.00			
	Cross Road (b/w 60 feet and 1st main Road)	1	50.00	7.50		375.00			
	Muniswame gowda layout								
	Main Road	1	300.00	5.50		1,650.00			
	1st Cross Road	1	170.00	5.50		935.00			
	2nd Cross Road	1	175.00	5.50		962.50			
	3rd Cross Road	1	190.00	5.50		1,045.00			
	4th Cross Road	1	180.00	5.50		990.00			
	Cross Road A	1	220.00	5.50		1,210.00			
	Cross Road B	1	200.00	5.50		1,100.00			
	Cross Road C	1	220.00	5.50		1,210.00			
	Cross Road D	1	230.00	5.50		1,265.00			
	Cross Road E	1	195.00	5.50		1,072.50			
	Cross Road F	1	210.00	5.50		1,155.00			
	deduct prime coat					-3,942.28			
						38,936.03	**Sqm**	**5.30**	**206360.93**
	Basic rate	**5.00**							
	Area Weightage 6%	**0.30**							
	Final Rate	**5.30**							
15	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications MORTH / Chapter 5 (P.No.158 I.No.21.7 of PW,P&IWTD SR of 2018-19)								
	Road Works								
	Tack Coat For DBM								
	Padma tent area								
	1st Cross	2	10.30	1.00		20.60			

	2nd Cross	2	20.00	1.00		40.00			
	3rd Cross	2	15.00	0.60		18.00			
	4th Cross	1	25.00	0.60		15.00			
	5th Cross	1	30.00	2.80		84.00			
	Amrutha Nagara C Sector								
	Bad Reaches	5	2.50	3.00		37.50			
		15	2.00	2.50		75.00			
		18	1.50	1.50		40.50			
		10	2.00	1.60		32.00			
		5	2.30	1.80		20.70			
		6	1.80	1.50		16.20			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	7	2.50	2.00		35.00			
	2nd Cross Road	11	2.00	2.00		44.00			
	3rd Cross Road	15	2.00	1.60		48.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	10	2.00	2.00		40.00			
	1st Cross Road	5	2.50	2.00		25.00			
	2nd Cross Road	4	1.60	1.70		10.88			
	3rd Cross Road	3	1.50	2.00		9.00			
	Cross Road	8	2.00	1.35		21.60			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	10	2.00	1.50		30.00			
	2nd Cross Road	9	2.50	2.00		45.00			
	3rd Cross Road	10	1.80	2.10		37.80			
	4th Cross Road	12	2.50	1.80		54.00			
	5th Cross Road	12	2.50	1.80		54.00			
	Cross Road	5	2.50	1.80		22.50			
	Cross Road	8	2.00	2.00		32.00			
	Kashinagar (UGD CUT PORTION)	1	180.00	1.00		180.00			
	Cross Road	10	2.50	1.50		37.50			
		11	2.00	1.40		30.80			
	Cross Road	6	2.00	1.50		18.00			
		15	2.00	1.80		54.00			
		10	2.00	1.60		32.00			
	Talakaveri Layout								
	2nd C Cross Road	8	2.00	2.50		40.00			
		12	2.00	2.50		60.00			
	2nd B Cross Road	8	2.00	1.50		24.00			
		6	1.65	1.80		17.82			
		10	2.00	1.20		24.00			
	2nd Main Road	4	2.00	1.50		12.00			
	UGD Cut	1	150.00	1.00		150.00			
						0.00			
	Cross Road (Near Chandramouleshwara Temple)	6	1.50	2.00		18.00			
	60 Feet Road	5	1.50	2.00		15.00			
		4	1.20	1.80		8.64			
		6	1.35	2.00		16.20			
		3	1.60	1.60		7.68			
		2	2.00	2.00		8.00			

		1	3.00	2.50		7.50			
	1st Main Road								
		5	2.00	2.00		20.00			
		2	1.50	1.60		4.80			
		5	1.50	1.40		10.50			
		6	1.00	1.20		7.20			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	5	2.00	1.50		15.00			
		6	1.50	1.40		12.60			
		5	1.60	1.35		10.80			
		8	1.50	1.60		19.20			
		1	2.00	1.70		3.40			
	Cross Road					0.00			
		3	2.00	2.00		12.00			
		4	1.50	1.50		9.00			
		5	1.00	1.00		5.00			
	2nd A Cross Road ((Perpendiculer to 1st Main Road)	5	1.20	2.00		12.00			
		4	1.60	1.50		9.60			
		3	1.50	1.60		7.20			
		2	2.10	1.50		6.30			
		1	2.00	1.40		2.80			
	2nd B Cross Road (Perpendiculer to 1st Main Road)	2	40.00	0.60		48.00			
						0.00			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	2	20.00	0.60		24.00			
						0.00			
	2nd D Cross Road(Perpendiculer to 1st Main Road)	5	2.00	1.60		16.00			
		4	2.00	1.40		11.20			
		3	2.10	1.50		9.45			
		2	1.50	2.10		6.30			
		1	1.80	1.60		2.88			
	Cross Road (b/w 60 feet and 1st main Road)	2	50.00	0.50		50.00			
	Muniswame gowda layout								
	Main Road	2	2.00	1.50		6.00			
		5	1.50	1.50		11.25			
		8	1.50	1.50		18.00			
	1st Cross Road	2	2.00	1.50		6.00			
		5	1.50	1.50		11.25			
		6	1.30	1.50		11.70			
	2nd Cross Road	5	1.20	1.50		9.00			
		4	2.00	1.50		12.00			
	3rd Cross Road	8	2.00	1.50		24.00			
		5	2.10	1.50		15.75			
	4th Cross Road	6	1.70	1.50		15.30			
		5	1.65	1.50		12.38			

	Cross Road A	2	220.00	0.70		308.00			
	Cross Road B	2	200.00	0.70		280.00			
	Cross Road C	2	220.00	0.70		308.00			
	Cross Road D	2	230.00	0.70		322.00			
	Cross Road E	2	195.00	0.70		273.00			
	Cross Road F	2	210.00	0.70		294.00			
	Tack Coat For BC								
	Amruth Nagar C Sector								
	W0488 - 3rd Cross	1	290.00	5.50		1,595.00			
	W0603	1	135.00	6.50		877.50			
	W0618 - 4th Cross	1	230.00	6.50		1,495.00			
	W0620 - 5th Cross	1	150.00	5.50		825.00			
	W0486 - 2nd Cross	1	75.00	5.20		390.00			
	W0611 - 6th Cross	1	65.00	4.80		312.00			
	W0623 - 7th Cross	1	65.00	4.60		299.00			
	W0629 - 8th Cross	1	70.00	4.70		329.00			
	Padma tent area								
	1st Cross	1	247.00	5.10		1,259.70			
	2nd Cross	1	150.00	5.20		780.00			
	3rd Cross	1	226.00	5.10		1,152.60			
	4th Cross	1	70.00	5.00		350.00			
	5th Cross	1	60.00	5.00		300.00			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	1	90.00	4.50		405.00			
	2nd Cross Road ,	1	100.00	4.50		450.00			
	3rd Cross Road	1	100.00	4.50		450.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	1	130.00	5.50		715.00			
	1st Cross Road	1	30.00	3.50		105.00			
	2nd Cross Road	1	20.00	3.50		70.00			
	3rd Cross Road	1	20.00	3.50		70.00			
	Cross Road	1	40.00	4.00		160.00			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	1	95.00	4.00		380.00			
	2nd Cross Road	1	100.00	4.50		450.00			
	3rd Cross Road	1	110.00	4.20		462.00			
	4th Cross Road	1	110.00	5.00		550.00			
	5th Cross Road	1	120.00	4.00		480.00			
	Cross Road	1	105.00	4.00		420.00			
	Cross Road	1	85.00	4.00		340.00			
	Cross Road A	1	160.00	5.50		880.00			
	Cross Road B	1	180.00	5.50		990.00			
	Cross Road C	1	95.00	5.50		522.50			
	Talakaveri Layout								
	2nd C Cross Road	1	130.00	7.50		975.00			
	2nd B Cross Road	1	120.00	6.50		780.00			
	2nd Main Road	1	150.00	7.50		1,125.00			
	Cross Road (Near Chandramouleshwara Temple)	1	65.00	5.00		325.00			
	60 Feet Road	1	270.00	10.00		2,700.00			
	1st Main Road	1	308.00	8.00		2,464.00			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	1	128.00	7.50		960.00			
	Cross Road	1	90.00	4.50		405.00			
	2nd A Cross Road ((Perpendiculer to 1st Main Road)	1	120.00	5.00		600.00			

	2nd B Cross Road (Perpendiculer to 1st Main Road)	1	40.00	5.50		220.00			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	1	20.00	4.50		90.00			
	2nd D Cross Road(Perpendiculer to 1st Main Road)	1	175.00	8.00		1,400.00			
	Cross Road (b/w 60 feet and 1st main Road)	1	50.00	7.50		375.00			
	Muniswame gowda layout								
	Main Road	1	300.00	5.50		1,650.00			
	1st Cross Road	1	170.00	5.50		935.00			
	2nd Cross Road	1	175.00	5.50		962.50			
	3rd Cross Road	1	190.00	5.50		1,045.00			
	4th Cross Road	1	180.00	5.50		990.00			
	Cross Road A	1	220.00	5.50		1,210.00			
	Cross Road B	1	200.00	5.50		1,100.00			
	Cross Road C	1	220.00	5.50		1,210.00			
	Cross Road D	1	230.00	5.50		1,265.00			
	Cross Road E	1	195.00	5.50		1,072.50			
	Cross Road F	1	210.00	5.50		1,155.00			
	Kashinagar (UGD CUT PORTION)	1	180.00	1.00		180.00			
						47,000.58	**Sqm**	**12.72**	**597847.31**
	Basic rate	**12.00**							
	Area Weightage 6%	**0.72**							
	Final Rate	**12.72**							
16	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Road Works								
	Tack Coat For DBM								
	Padma tent area								
	1st Cross	2.00	10.30	1.00	0.05	1.03			
	2nd Cross	2.00	20.00	1.00	0.05	2.00			
	3rd Cross	2.00	15.00	0.60	0.05	0.90			
	4th Cross	1.00	25.00	0.60	0.05	0.75			
	5th Cross	1.00	30.00	2.80	0.05	4.20			
	Amrutha Nagara C Sector								
	Bad Reaches	5.00	2.50	3.00	0.05	1.88			
		15.00	2.00	2.50	0.05	3.75			
		18.00	1.50	1.50	0.05	2.03			
		10.00	2.00	1.60	0.05	1.60			
		5.00	2.30	1.80	0.05	1.04			
		6.00	1.80	1.50	0.05	0.81			
		0.00	0.00	0.00	0.05	0.00			
	Shabarinagara/ Byatarayanpura								

	1st Cross Road	7.00	2.50	2.00	0.05	1.75			
	2nd Cross Road	11.00	2.00	2.00	0.05	2.20			
	3rd Cross Road	15.00	2.00	1.60	0.05	2.40			
	Byregowda Layout / Byatarayanpura								
	1st main Road	10.00	2.00	2.00	0.05	2.00			
	1st Cross Road	5.00	2.50	2.00	0.05	1.25			
	2nd Cross Road	4.00	1.60	1.70	0.05	0.54			
	3rd Cross Road	3.00	1.50	2.00	0.05	0.45			
	Cross Road	8.00	2.00	1.35	0.05	1.08			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	10.00	2.00	1.50	0.05	1.50			
	2nd Cross Road	9.00	2.50	2.00	0.05	2.25			
	3rd Cross Road	10.00	1.80	2.10	0.05	1.89			
	4th Cross Road	12.00	2.50	1.80	0.05	2.70			
	5th Cross Road	12.00	2.50	1.80	0.05	2.70			
	Cross Road	5.00	2.50	1.80	0.05	1.13			
	Cross Road	8.00	2.00	2.00	0.05	1.60			
	Kashinagar (UGD CUT PORTION)	1.00	180.00	1.00	0.05	9.00			
	Cross Road	10.00	2.50	1.50	0.05	1.88			
		11.00	2.00	1.40	0.05	1.54			
	Cross Road	6.00	2.00	1.50	0.05	0.90			
		15.00	2.00	1.80	0.05	2.70			
		10.00	2.00	1.60	0.05	1.60			
	Talakaveri Layout								
	2nd C Cross Road	8.00	2.00	2.50	0.05	2.00			
		12.00	2.00	2.50	0.05	3.00			
	2nd B Cross Road	8.00	2.00	1.50	0.05	1.20			
		6.00	1.65	1.80	0.05	0.89			
		10.00	2.00	1.20	0.05	1.20			
	2nd Main Road	4.00	2.00	1.50	0.05	0.60			
	UGD Cut	1.00	150.00	1.00	0.05	7.50			
	Cross Road (Near Chandramouleshwara Temple)	6.00	1.50	2.00	0.05	0.90			
	60 Feet Road	5.00	1.50	2.00	0.05	0.75			
		4.00	1.20	1.80	0.05	0.43			
		6.00	1.35	2.00	0.05	0.81			
		3.00	1.60	1.60	0.05	0.38			
		2.00	2.00	2.00	0.05	0.40			
		1.00	3.00	2.50	0.05	0.38			
	1st Main Road	5.00	2.00	2.00	0.05	1.00			
		2.00	1.50	1.60	0.05	0.24			
		5.00	1.50	1.40	0.05	0.53			
		6.00	1.00	1.20	0.05	0.36			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	5.00	2.00	1.50	0.05	0.75			
		6.00	1.50	1.40	0.05	0.63			
		5.00	1.60	1.35	0.05	0.54			
		8.00	1.50	1.60	0.05	0.96			
		1.00	2.00	1.70	0.05	0.17			

	Cross Road								
		3.00	2.00	2.00	0.05	0.60			
		4.00	1.50	1.50	0.05	0.45			
		5.00	1.00	1.00	0.05	0.25			
	2nd A Cross Road ((Perpendiculer to 1st Main Road)	5.00	1.20	2.00	0.05	0.60			
		4.00	1.60	1.50	0.05	0.48			
		3.00	1.50	1.60	0.05	0.36			
		2.00	2.10	1.50	0.05	0.32			
		1.00	2.00	1.40	0.05	0.14			
	2nd B Cross Road (Perpendiculer to 1st Main Road)	2.00	40.00	0.60	0.05	2.40			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	2.00	20.00	0.60	0.05	1.20			
	2nd D Cross Road(Perpendiculer to 1st Main Road)	5.00	2.00	1.60	0.05	0.80			
		4.00	2.00	1.40	0.05	0.56			
		3.00	2.10	1.50	0.05	0.47			
		2.00	1.50	2.10	0.05	0.32			
		1.00	1.80	1.60	0.05	0.14			
	Cross Road (b/w 60 feet and 1st main Road)	2.00	50.00	0.50	0.05	2.50			
	Muniswame gowda layout								
	Main Road	2.00	2.00	1.50	0.05	0.30			
		5.00	1.50	1.50	0.05	0.56			
		8.00	1.50	1.50	0.05	0.90			
	1st Cross Road	2.00	2.00	1.50	0.05	0.30			
		5.00	1.50	1.50	0.05	0.56			
		6.00	1.30	1.50	0.05	0.59			
	2nd Cross Road	5.00	1.20	1.50	0.05	0.45			
		4.00	2.00	1.50	0.05	0.60			
	3rd Cross Road	8.00	2.00	1.50	0.05	1.20			
		5.00	2.10	1.50	0.05	0.79			
	4th Cross Road	6.00	1.70	1.50	0.05	0.77			
		5.00	1.65	1.50	0.05	0.62			
	Cross Road A	2.00	220.00	0.70	0.05	15.40			
	Cross Road B	2.00	200.00	0.70	0.05	14.00			
	Cross Road C	2.00	220.00	0.70	0.05	15.40			
	Cross Road D	2.00	230.00	0.70	0.05	16.10			
	Cross Road E	2.00	195.00	0.70	0.05	13.65			
	Cross Road F	2.00	210.00	0.70	0.05	14.70			
						197.11	**Cum**	**6597.44**	**1300446.14**
	Basic rate	6224.00							
	6% AW	373.44							
	Sub Total	6597.44							

17	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PW,P&IWTD SR 2018-19) As per Issue rate dated 03/01/2020								
	Amruth Nagar C Sector								
	W0488 - 3rd Cross	1	290.00	5.50	0.04	63.80			
	W0603	1	135.00	6.50	0.04	35.10			
	W0618 - 4th Cross	1	230.00	6.50	0.04	59.80			
	W0620 - 5th Cross	1	150.00	5.50	0.04	33.00			
	W0486 - 2nd Cross	1	75.00	5.20	0.04	15.60			
	W0611 - 6th Cross	1	65.00	4.80	0.04	12.48			
	W0623 - 7th Cross	1	65.00	4.60	0.04	11.96			
	W0629 - 8th Cross	1	70.00	4.70	0.04	13.16			
	Padma tent area								
	1st Cross	1	247.00	5.10	0.04	50.39			
	2nd Cross	1	150.00	5.20	0.04	31.20			
	3rd Cross	1	226.00	5.10	0.04	46.10			
	4th Cross	1	70.00	5.00	0.04	14.00			
	5th Cross	1	60.00	5.00	0.04	12.00			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	1	90.00	4.50	0.04	16.20			
	2nd Cross Road	1	100.00	4.50	0.04	18.00			
	3rd Cross Road	1	100.00	4.50	0.04	18.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	1	130.00	5.50	0.04	28.60			
	1st Cross Road	1	30.00	3.50	0.04	4.20			
	2nd Cross Road	1	20.00	3.50	0.04	2.80			
	3rd Cross Road	1	20.00	3.50	0.04	2.80			
	Cross Road	1	40.00	4.00	0.04	6.40			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	1	95.00	4.00	0.04	15.20			
	2nd Cross Road	1	100.00	4.50	0.04	18.00			
	3rd Cross Road	1	110.00	4.20	0.04	18.48			
	4th Cross Road	1	110.00	5.00	0.04	22.00			
	5th Cross Road	1	120.00	4.00	0.04	19.20			
	Cross Road	1	105.00	4.00	0.04	16.80			
	Cross Road	1	85.00	4.00	0.04	13.60			
	Cross Road A	1	160.00	5.50	0.04	35.20			
	Cross Road B	1	180.00	5.50	0.04	39.60			
	Cross Road C	1	95.00	5.50	0.04	20.90			
	Talakaveri Layout								
	2nd C Cross Road	1	130.00	7.50	0.04	39.00			
	2nd B Cross Road	1	120.00	6.50	0.04	31.20			
	2nd Main Road	1	150.00	7.50	0.04	45.00			
	Cross Road (Near Chandramouleshwara Temple)	1	65.00	5.00	0.04	13.00			
	60 Feet Road	1	270.00	10.00	0.04	108.00			
	1st Main Road	1	308.00	8.00	0.04	98.56			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	1	128.00	7.50	0.04	38.40			

	Cross Road	1	90.00	4.50	0.04	16.20			
	2nd A Cross Road ((Perpendiculer to 1st Main Road)	1	120.00	5.00	0.04	24.00			
	2nd B Cross Road (Perpendiculer to 1st Main Road)	1	40.00	5.50	0.04	8.80			
	2nd C Cross Road(Perpendiculer to 1st Main Road)	1	20.00	4.50	0.04	3.60			
	2nd D Cross Road(Perpendiculer to 1st Main Road)	1	175.00	8.00	0.04	56.00			
	Cross Road (b/w 60 feet and 1st main Road)	1	50.00	7.50	0.04	15.00			
	Muniswame gowda layout								
	Main Road	1	300.00	5.50	0.04	66.00			
	1st Cross Road	1	170.00	5.50	0.04	37.40			
	2nd Cross Road	1	175.00	5.50	0.04	38.50			
	3rd Cross Road	1	190.00	5.50	0.04	41.80			
	4th Cross Road	1	180.00	5.50	0.04	39.60			
	Cross Road A	1	220.00	5.50	0.04	48.40			
	Cross Road B	1	200.00	5.50	0.04	44.00			
	Cross Road C	1	220.00	5.50	0.04	48.40			
	Cross Road D	1	230.00	5.50	0.04	50.60			
	Cross Road E	1	195.00	5.50	0.04	42.90			
	Cross Road F	1	210.00	5.50	0.04	46.20			
	Kashinagar (UGD CUT PORTION)	1	180.00	1.00	0.04	7.20			
						1,722.33	**Cum**	**7753.9**	**13354774.59**
	Basic rate (Issue Rate)	7315.00							
	6% AW	**438.9**							
	Sub Total	**7753.9**							
18	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Center Line	0.50	7,479.00	0.10		373.95			
	Edge Line	2.00	6,019.50	0.10		1,203.90			
						1,577.85	**Sqm**	**454.74**	**717511.51**
	Basic rate	**429.00**							
	6% AW	**25.74**							
	Sub Total	**454.74**							

19	KSRRB M600-1 Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH V Revision Specification No. 601, IS 456 Table-5 with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver ((P.No.174, I.No.22.1.2 of PW,P&IWTD SR 2018-19)								
	Bhadrappa Layout & Amruthahalli Surrounding								
	Cross Road 1	1	150.00	4.00	0.15	90.00			
	Cross Road 2	1	180.00	4.20	0.15	113.40			
	Cross Road 3	1	400.00	4.00	0.15	240.00			
	Cross Road 4	1	150.00	4.00	0.15	90.00			
	Cross Road 5	1	200.00	4.00	0.15	120.00			
						653.40	**cum**	**3884.90**	**2538393.66**
	Basic rate	**3,665.00**							
	6% AW	**219.90**							
	Sub Total	**3,884.90**							
20	Constructing un-reinforced, **plain cement concrete for pavements using Grade concrete M30** with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum, over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-182,I No-22.6.1)								

	Bhadrappa Layout & Amruthahalli Surrounding								
	Cross Road 1	1	150.00	4.00	0.10	60.00			
	Cross Road 2	1	180.00	4.20	0.10	75.60			
	Cross Road 3	1	400.00	4.00	0.10	160.00			
	Cross Road 4	1	150.00	4.00	0.10	60.00			
	Cross Road 5	1	200.00	4.00	0.10	80.00			
						435.60	Cum	5210.96	2269894.18
	Basic rate	4,916.00							
	6% AW	294.96							
	Sub Total	5,210.96							
								Total Construction Cost	25,155,338.56
21								12% GST to Construction Cost	3,018,640.63
22								5% Tender Premium	1,257,766.93
23								Cost towards Preparation of DPR LS	281,740.00
24								Cost towards PMC / Third Party inspection LS	281,740.00
								Sub Total	29,995,226.11
25								Miscellaneous and rounding off	4,773.89
								TOTAL	30,000,000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Tejus Consultants

Assistant Engineer
BBMP Bangalore

Asst. Executive Engineer,
BBMP Bangalore

Executive Engineer,
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್‌ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಯೋಜನೆ ವಿಭಾಗ ಯೋಜನೆ ವಲಯ
ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560002.